HST-D207

SERVICE MANUAL

AEP Model
UK Model

• HST-D207 is the STEREO DECK RECEIVER in LBT-D207

SPECIFICATIONS

Tuner

System: FM stereo; FM/AM superheterodyne tuner

FM tuner section
- Tuning range: 87.5 to 108 MHz
- Antenna: 75 ohms unbalanced
- Intermediate frequency: 10.7 MHz

MW/LW tuner section
- Tuning range: MW: 522 to 1,611 kHz (Italian model); 531 to 1,602 kHz (other models); LW: 144 to 288 kHz (Italian model); 153 to 279 kHz (other models)
- Antenna: AM loop antenna; External antenna terminal
- Intermediate frequency: 450 kHz

Amplifier

DIN power output: 30 W + 30 W (6 ohms, at 1 kHz)

Continuous RMS power output: 35 W + 35 W (6 ohms, at 1 kHz, 5% THD)

Music power output: 60 W + 60 W (6 ohms)

Input	Jack type	Sensitivity	Impedance
CD IN	Phono	300 mV	47 kohms
VIDEO IN	Phono	300 mV	47 kohms
PHONO IN	Phono	3 mV	47 kohms

Output	Jack type	Impedance
SURROUND SPEAKER	Phono	Accepts speakers of 16 ohms
HEADPHONES	Stereophone	Accepts headphones of 8 ohms or more

Frequency response: CD: 15 Hz to 50 kHz $^{+0}_{-3}$ dB

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

MICROFILM

Model Name Using Similar Mechanism	HST-D107
Tape Transport Mechanism Type	TCM-180VW-H7

Cassette deck

Recording system: 4-track 2-channel stereo

Frequency response: DOLBY NR OFF
With Type II cassette (Sony UX-S)
40 Hz to 14 kHz (±3 dB)
With Type I cassette (Sony HF-S)
40 Hz to 13 kHz (±3 dB)

Wow and flutter: W.PEAK ±0.2% (DIN)

General

Power requirements: 220–230 V AC, 50/60 Hz (AEP)
240 V AC, 50 Hz (UK)

Power consumption: 90 W (AEP)
210 W (UK)

Weight: Approx. 7.6 kg

Dimensions: Approx. 355 × 380 × 325 mm (w/h/d, including projections)

Supplied accessories

45-rpm adaptor (1) (excluding for HST model)
Remote commander RM-S171 (1)
FM wire antenna (1) (excluding German model)
AM loop antenna (1)
Batteries Sony SUM-3 (NS) (2)

Design and specifications are subject to change without notice.

COMPACT Hi-Fi STEREO SYSTEM

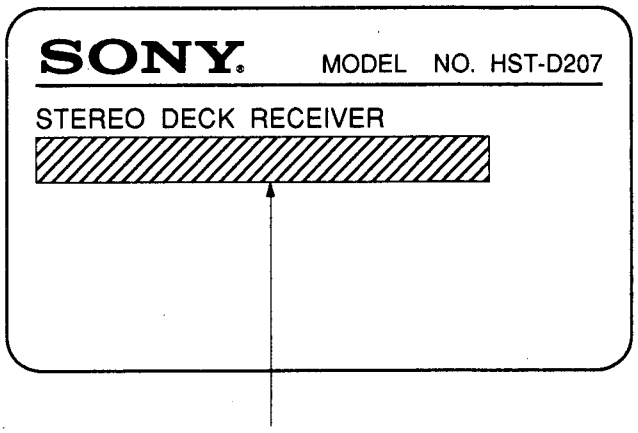
SONY®

TABLE OF CONTENTS

Section	Title	Page
SECTION 1.	GENERAL	3
SECTION 2.	ADJUSTMENTS	4
SECTION 3.	DIAGRAMS	
3-1.	Block Diagram	7
3-2.	Circuit Boards Location	9
3-3.	Printed Wiring Boards — Audio Section —	10
3-4.	Schematic Diagrams — Audio Section —	15
3-5.	Schematic Diagrams — Panel Section —	18
3-6.	Schematic Diagrams — Tuner Section —	21
3-7.	Schematic Diagrams — TC Section —	24
3-8.	Printed Wiring Boards — TC Section —	27
3-9.	Semiconductor Lead Layouts	29
SECTION 4.	EXPLODED VIEWS	
4-1.	Cabinet Section	30
4-2.	Front Panel Section	31
4-3.	Mechanism-1 Section	32
4-4.	Mechanism-2 Section	33
4-5.	Mechanism-3 Section	34
SECTION 5.	ELECTRICAL PARTS LIST	35

MODEL IDENTIFICATION

— Model Number Portion —



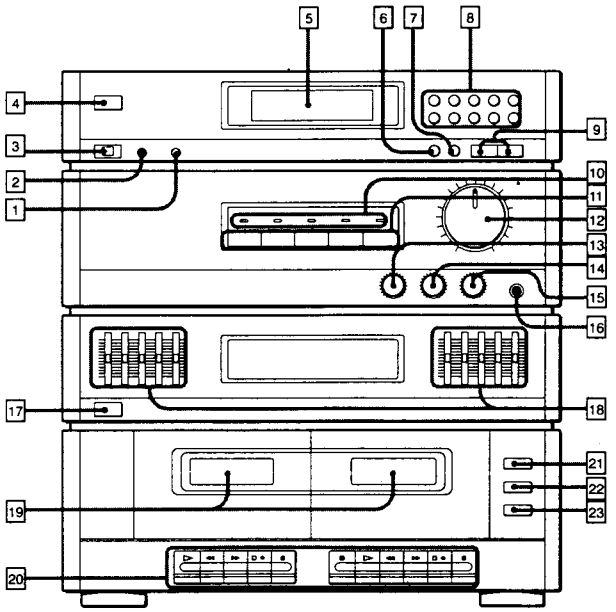
AEP, Germany, Italian model : AC : 220—230V ~ 50/60Hz
UK model : Ac : 240V ~ 50Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

This section is extracted from instruction manual.



Location of Controls

Refer to the pages indicated in ( )for details.

Tuner

1 ST/MUTE button (20)
2 MEMORY button (22)
3 Remote sensor
4 POWER switch (14)
5 Display window
6 SHIFT button (22)
7 BAND SELECT button (20)
8 Buttons for storing station frequencies (22)
9 DUAL MODE TUNING buttons (20, 22)

Amplifier

10 Function indicators
11 Function selectors (VIDEO/TAPE/CD/TUNER/PHONO)
12 VOL (volume) control (16)
13 SURROUND control (16)
14 DBFB (dynamic bass feedback) control (16)
15 BALANCE control (16)
16 HEADPHONES jack

Graphic Equalizer

17 EQUALIZER switch (16)
18 GRAPHIC EQUALIZER controls (16)

Cassette Deck

19 Cassette holders
20 Tape operation buttons (24)
◀◀ Leftward fast winding
▶▶ Rightward fast winding
▶ Forward play
■ ⏏ Stop/eject
❚❚ PAUSE Pause
● REC Record
21 TAPE SELECT button (24, 26, 30)
22 DUBBING SPEED button (30)
23 DOLBY NR (noise reduction) button (24, 26)

SECTION 2
ADJUSTMENTS

2-1. MECHANICAL ADJUSTMENTS

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback heads — pinch rollers
   erase heads — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	30--70g•cm (0.42—0.97oz•inch)
FWD Back tension	CQ-102C	1.5—5.5g•cm (0.020—0.076oz•inch)
FF. REW	CQ-201B	63g•cm or more (0.87oz•inch)

2-2. ELECTRICAL ADJUSTMENTS

0dB=0.775V (AF)
0dB=0.1μV (RF)

CASSETTE DECK SECTION

1. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.

• Switches and controls should be set as follows unless otherwise specified.
DOLBY NR switch: OFF
TAPE SELECT switch: TYPE I

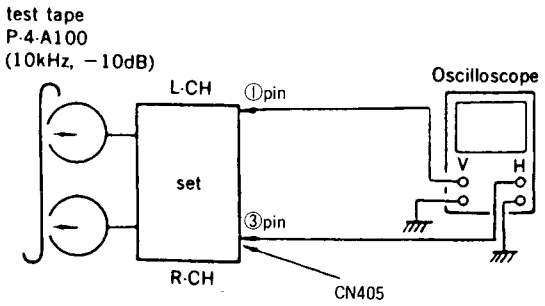
Type	Signal	Used for
P-4-A100	10kHz, −10dB	Azimath Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

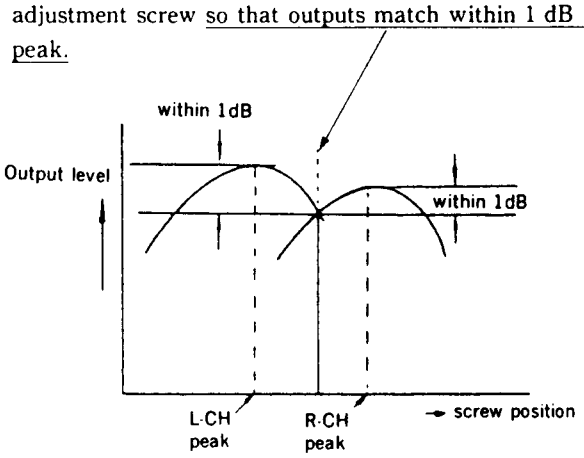
Note: Perform this adjustments for both decks.

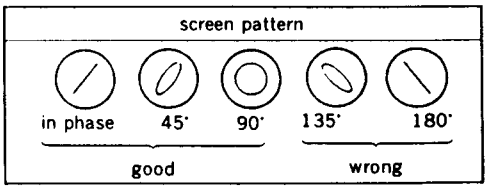
Procedure:

1. Mode: FWD playback



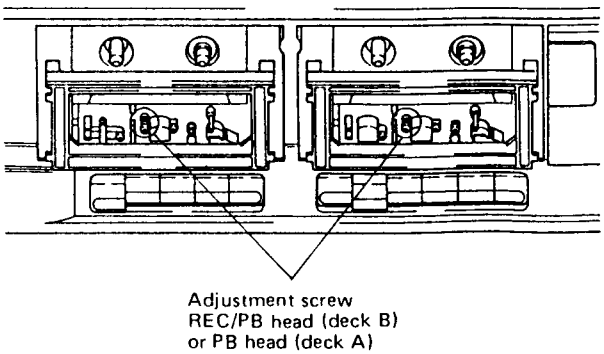
2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.





3. After the adjustments, apply suitable locking compound to the parts adjusted.

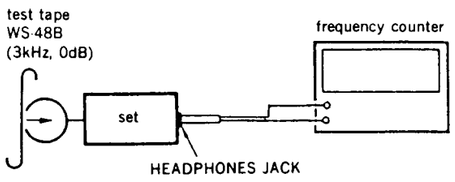
Adjustment Location:



Tape Speed Adjustment

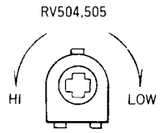
Procedure :

Mode : playback



- High speed adjustment
  1. Short pin CN407. Then at HIGH speed mode.
  2. Adjust RV504 so that the frequency counter reads 6000 ± 20Hz.
     (Must be first Adjustment B deck)
- NORMAL speed adjustment
  1. Remove the short pin from CN407. Then at NORMAL speed mode.
  2. Adjust RV505 so that the frequency counter reads 3000 ± 10Hz.

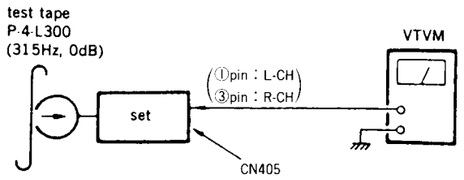
Adjustment Location: TC MAIN board



Playback Level Adjustment

Procedure :

Mode : FWD playback



DECK-A side RV400(L-CH), RV500(R-CH)
DECK-B side RV401(L-CH), RV501(R-CH)
so that the limits below are satisfied.

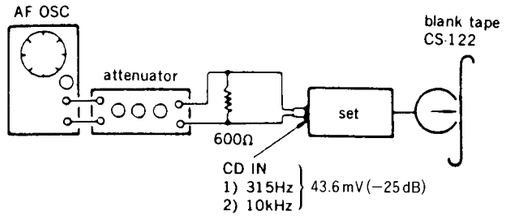
Adjustable limits :

CN405 level: 461.6 – 411.4mV(−4.5 – −5.5dB)
level difference between the channels : within 1.0dB
(See page 6 for Adjustment Location)

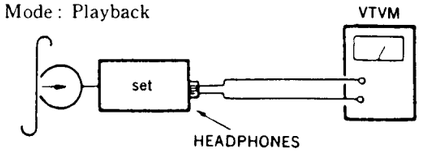
Record BIAS Current Adjustment

Procedure :

1. Mode : record



2. Mode : Playback



(1) Supply a 43.6mV(−25dB) signal (315Hz) from the CD IN. Adjust the VOLUME control so that a 24.5mV(−30dB) signal is output to the headphones terminal.
(2) Insert alignment tape CS-122 into deck B and put the set into the REC mode.
(3) Adjust the signal frequency to 10kHz.
(4) Put the set into the PB mode and adjust RV403(L CH) and RV503(R CH) in the REC mode so that the level difference between 315Hz and 10kHz is within 0±0.5dB.
(5) Repeatedly put the set into the REC and PB modes two to four times and adjust the bias.

Adjustable limits :

The HEADPHONES level of 10kHz signal relative to that of 315Hz : 0dB±0.5dB

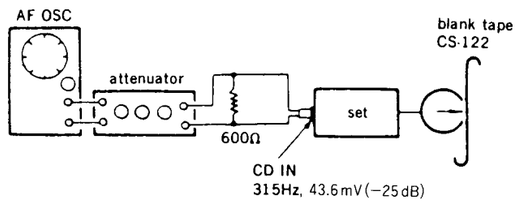
Record Level Adjustment

Setting :

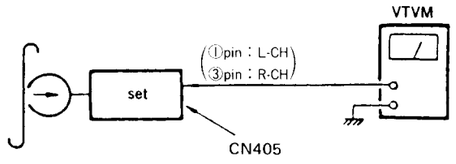
TAPE SELECT : TYPE I

Procedure :

1. Mode : record



2. Mode : playback



(1) Supply a 43.6mV(−25dB) signal (315Hz) from the CD terminal.
(2) Insert alignment tape CS-122 into deck B and record the signal. Then playback the recorded portion of the tape and adjust RV402(L-CH) and RV502(R-CH) so that the 43.6mV (−25dB) signal output is obtained at CN405 terminal.

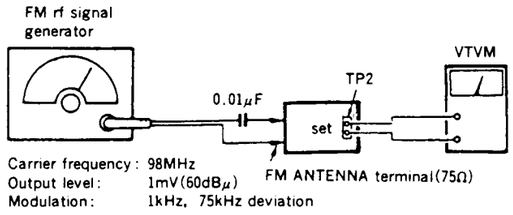
Adjustable limits :

CN405 level : 46.2 – 41.1mV(−24.5 – −25.5dB)

TUNER SECTION

As FM FRONT-END FE301 is difficult to repair if faulty, replace it with new one.

FM NULL Adjustment

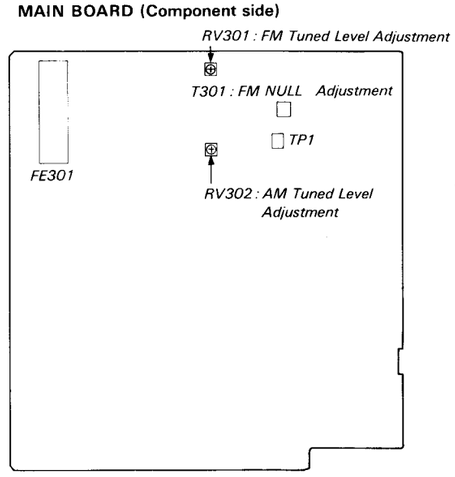


Procedure :

1. Tune the set to 98 MHz.
2. Adjust T301 for 0V reading on the VTVM.

Adjustment Location :

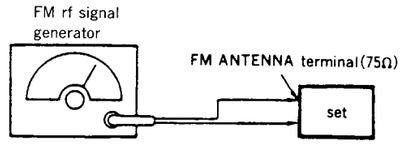
MAIN BOARD (Component side)



FM Tuned Level Adjustment

Setting :

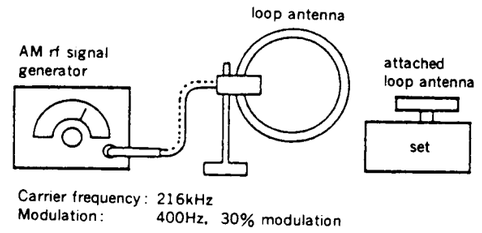
STEREO/MUTE : OFF



Procedure :

1. Tune the set to 98 MHz.
2. Adjust RV302 to the point where "TUNED" sign on FL601 just turns light.

• AM SECTION



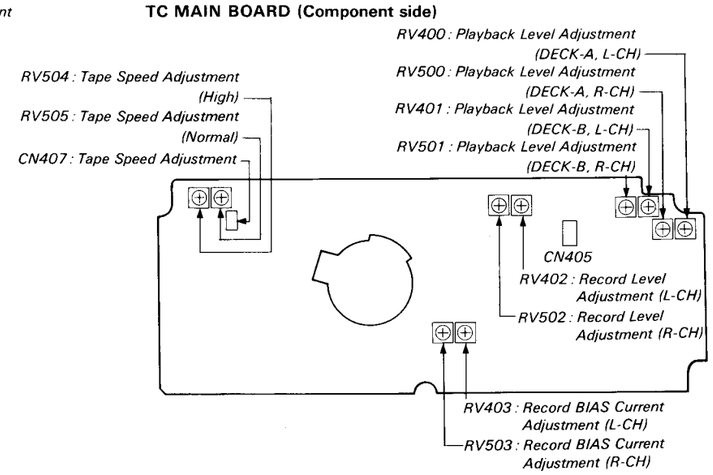
AM Tuned Level Adjustment

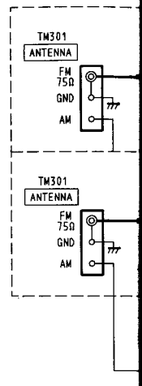
• AM BAND

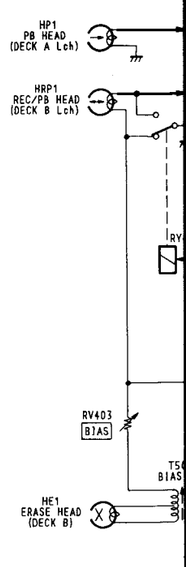
1. Set loop antenna input level to 2.5mV (50 dBμ/m) and no signal tuned light should not on.
2. Tune the set to 1490kHz.
3. Adjust RV301 to the point where "TUNED" sign on FL601 just turns light.

Adjustment Location :

TC MAIN BOARD (Component side)


RV400 : Playback Level Adjustment (DECK-A, L-CH)
RV500 : Playback Level Adjustment (DECK-A, R-CH)
RV401 : Playback Level Adjustment (DECK-B, L-CH)
RV501 : Playback Level Adjustment (DECK-B, R-CH)
RV504 : Tape Speed Adjustment (High)
RV505 : Tape Speed Adjustment (Normal)
CN407 : Tape Speed Adjustment
CN405
RV402 : Record Level Adjustment (L-CH)
RV502 : Record Level Adjustment (R-CH)
RV403 : Record BIAS Current Adjustment (L-CH)
RV503 : Record BIAS Current Adjustment (R-CH)





3.6mV(−25dB) signal (315Hz) from the CD ter-

ıment tape CS-122 into deck B and record the
n playback the recorded portion of the tape and
402(L-CH) and RV502(R-CH) so that the 43.6mV
gnal output is obtained at CN405 terminal.

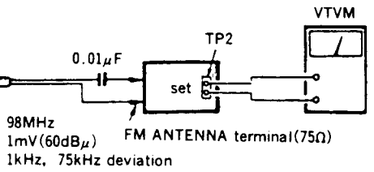
its :

: 46.2 − 41.1mV(−24.5 − −25.5dB)

ON

NT-END FE301 is difficult to repair if
e it with new one.

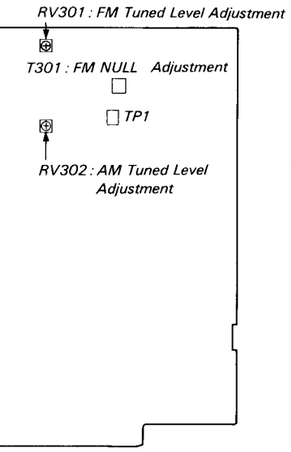
stment



et to 98 MHz.
l for 0V reading on the VTVM.

ation :

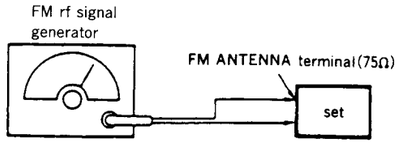
omponent side)



FM Tuned Level Adjustment

Setting:

STEREO/MUTE : OFF

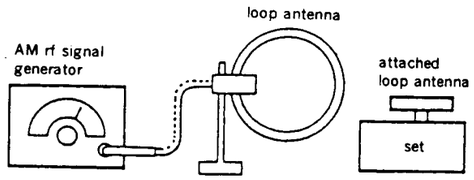


Carrier frequency: 98MHz
Output level: 0.018mV(25dBμ)
Modulation: 1kHz, 75kHz deviation

Procedure :

1. Tune the set to 98 MHz.
2. Adjust RV302 to the point where "TUNED" sign on FL601 just turns light.

• AM SECTION



Carrier frequency: 216kHz
Modulation: 400Hz, 30% modulation

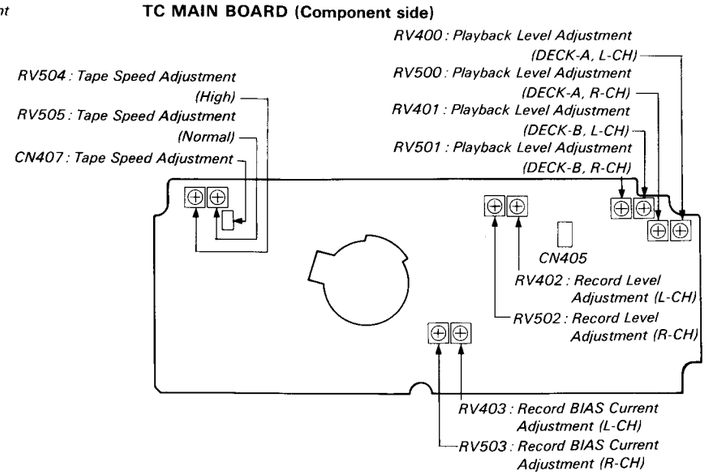
AM Tuned Level Adjustment

• AM BAND

1. Set loop antenna input level to 2.5mV (50 dBμ/m) and no signal tuned light should not on.
2. Tune the set to 1490kHz.
3. Adjust RV301 to the point where "TUNED" sign on FL601 just turns light.

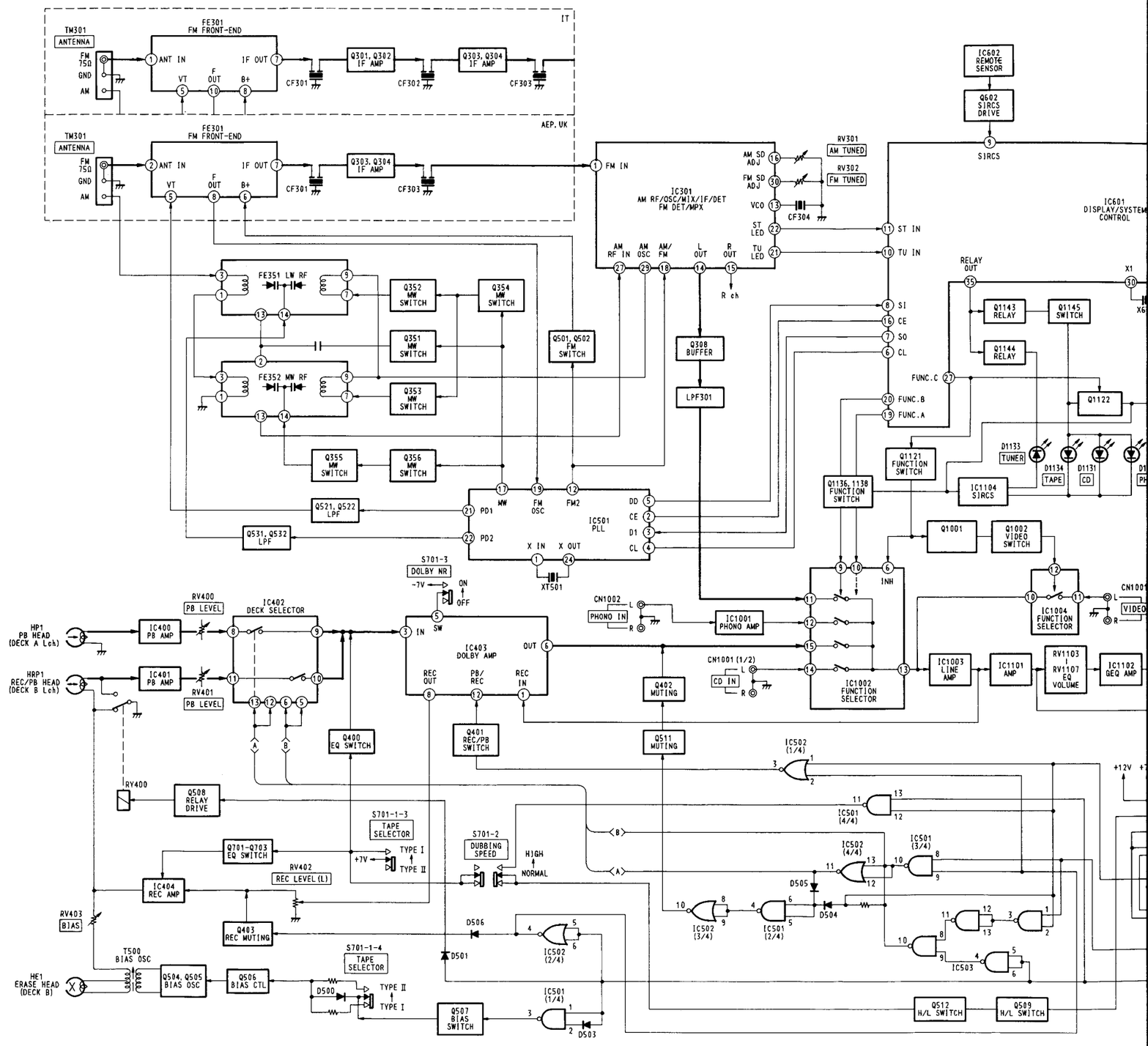
Adjustment Location :

TC MAIN BOARD (Component side)

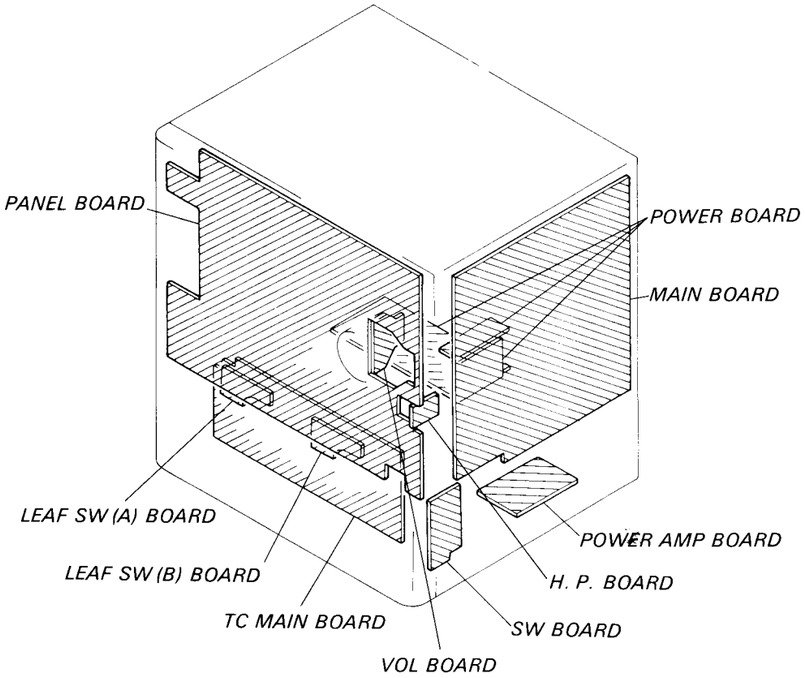

RV504 : Tape Speed Adjustment (High)
RV505 : Tape Speed Adjustment (Normal)
CN407 : Tape Speed Adjustment
RV400 : Playback Level Adjustment (DECK-A, L-CH)
RV500 : Playback Level Adjustment (DECK-A, R-CH)
RV401 : Playback Level Adjustment (DECK-B, L-CH)
RV501 : Playback Level Adjustment (DECK-B, R-CH)
CN405
RV402 : Record Level Adjustment (L-CH)
RV502 : Record Level Adjustment (R-CH)
RV403 : Record BIAS Current Adjustment (L-CH)
RV503 : Record BIAS Current Adjustment (R-CH)

SECTION 3
DIAGRAMS

3-1. BLOCK DIAGRAM



3-2. CIRCUIT BOARDS LOCATION



3-3. PRINTED WIRING BOARDS –AUDIO Section–

- See page 29 for semiconductor lead layouts.
- See page 9 for circuit boards location.

● Semiconductor Location

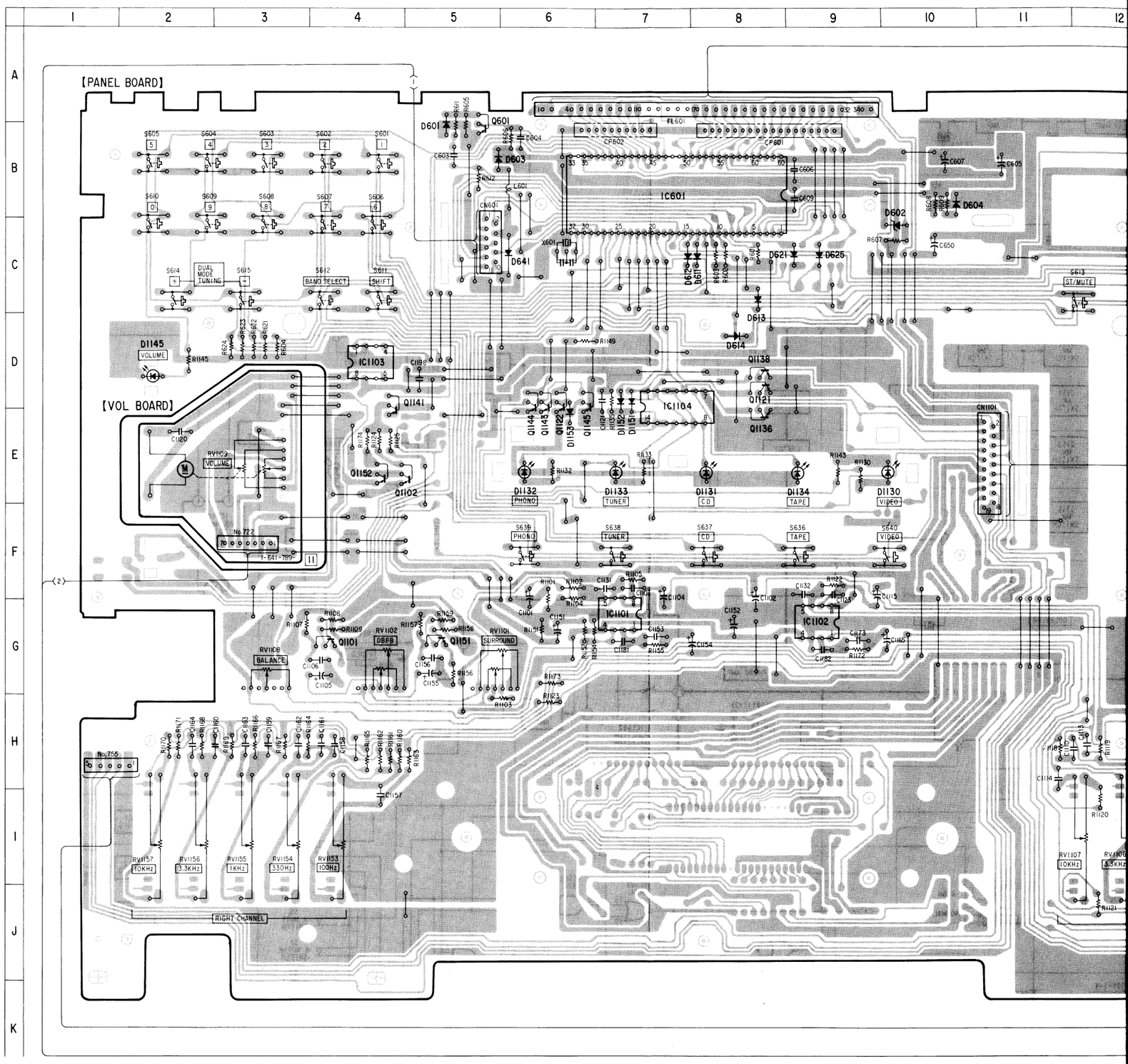
Ref. No.	Location	Ref. No.	Location
D351	E-18	IC1104	D-7
D601	B-5	IC1201	E-15
D602	B-10	IC1202	F-27
D603	B-6	IC1303	H-26
D604	B-10	IC1304	G-24
D611	C-8	IC1305	F-25
D612	C-7	IC1306	C-24
D613	D-8		
D614	D-8	Q252	D-19
D621	C-8	Q301	D-20
D625	C-9	Q303	E-20
D641	C-6	Q304	E-20
D1130	E-10	Q305	I-20
D1131	E-7	Q306	I-20
D1132	E-6	Q307	H-21
D1133	E-7	Q308	H-20
D1134	E-9	Q309	H-21
D1145	D-2	Q351	D-19
D1151	E-7	Q352	D-19
D1152	E-7	Q353	D-19
D1201	E-16	Q354	E-19
D1202	D-27	Q355	E-18
D1203	D-27	Q356	E-19
D1204	F-27	Q501	F-18
D1251	G-16	Q502	F-18
D1302	C-26	Q521	C-21
D1303	C-25	Q522	B-22
D1304	C-24	Q531	C-22
D1305	C-25	Q532	C-22
D1306	C-25	Q601	B-5
D1307	B-30	Q602	C-13
D1309	B-30	Q1001	G-22
D1311	B-30	Q1002	G-22
D1318	B-25	Q1101	G-4
D1319	B-25	Q1102	E-4
D1321	H-26	Q1121	D-8
D1323	D-25	Q1122	E-6
D1324	D-25	Q1136	E-8
D1341	H-26	Q1138	D-8
D1368	B-25	Q1141	D-5
D1369	B-25	Q1143	E-6
		Q1144	E-6
IC301	G-19	Q1145	E-6
IC501	E-21	Q1151	G-5
IC601	B-7	Q1152	E-4
IC602	C-14	Q1153	E-6
IC1001	C-23	Q1201	D-16
IC1002	E-23	Q1202	H-16
IC1003	I-23	Q1203	H-16
IC1004	G-23	Q1204	F-27
IC1101	G-7	Q1251	G-16
IC1102	G-9	Q1301	A-30
IC1103	D-4	Q1302	I-25

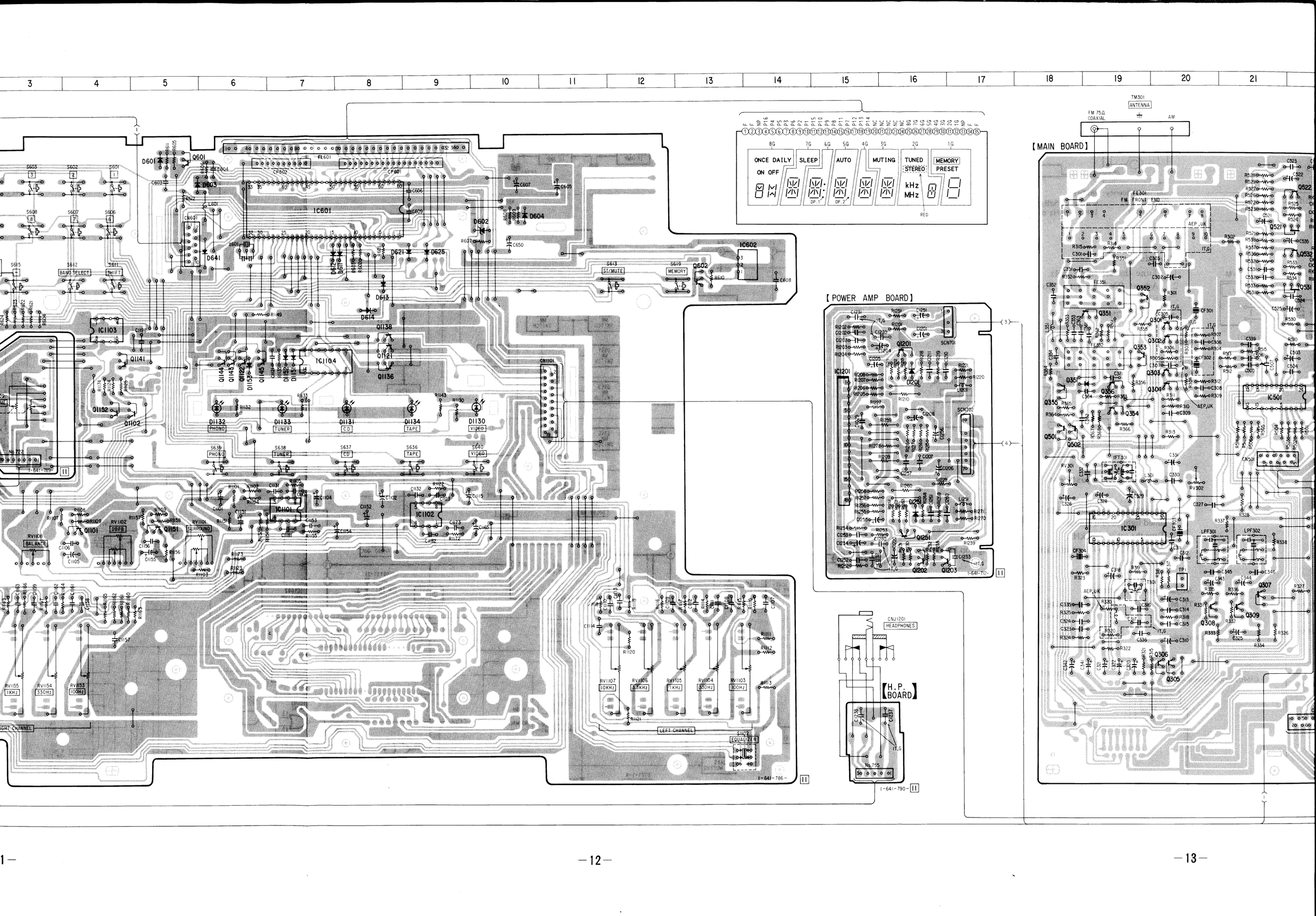
Note:

- ○—— : parts extracted from the component side.

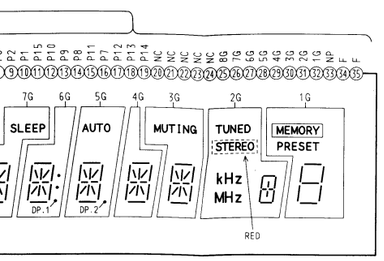
G : Germany

IT : Italian

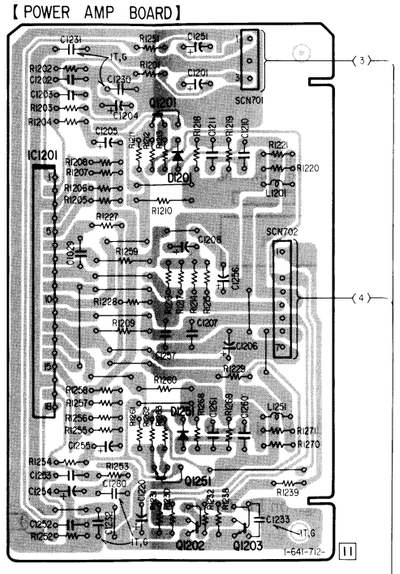



【MAIN BOARD】
【POWER AMP BOARD】
【H.P. BOARD】
TM301
ANTENNA
FM 75Ω COAXIAL
AM
FE301
FM FRONT END
IC301
IC501
IC601
IC602
IC1101
IC1102
IC1103
IC1104
IC1201
Q1201
Q1251
SCN701
SCN702
CN701
CN1101
CNJ1201
HEADPHONES
SW02
EQUALIZER
ONCE DAILY
ON OFF
SLEEP
AUTO
MUTING
TUNED
STEREO
MEMORY
PRESET
kHz
MHz
RED
S603
S602
S601
S608
S607
S606
S615
S612
BAND SELECT
S611
SHIFT
S613
ST/MUTE
S619
MEMORY
S639
PHONO
S638
TUNER
S637
CD
S636
TAPE
S640
VIDEO
D1132
PHONO
D1133
TUNER
D1131
CD
D1134
TAPE
D1130
VIDEO
RV1108
BALANCE
RV1102
DBFB
RV1101
SURROUND
RV1155
1KHz
RV1154
330Hz
RV1153
100Hz
RV1107
10KHz
RV1106
3.3KHz
RV1105
1KHz
RV1104
330Hz
RV1103
100Hz
RIGHT CHANNEL
LEFT CHANNEL
No.755
1-641-789-11
1-641-786-11
1-641-790-11
1-641-710-11

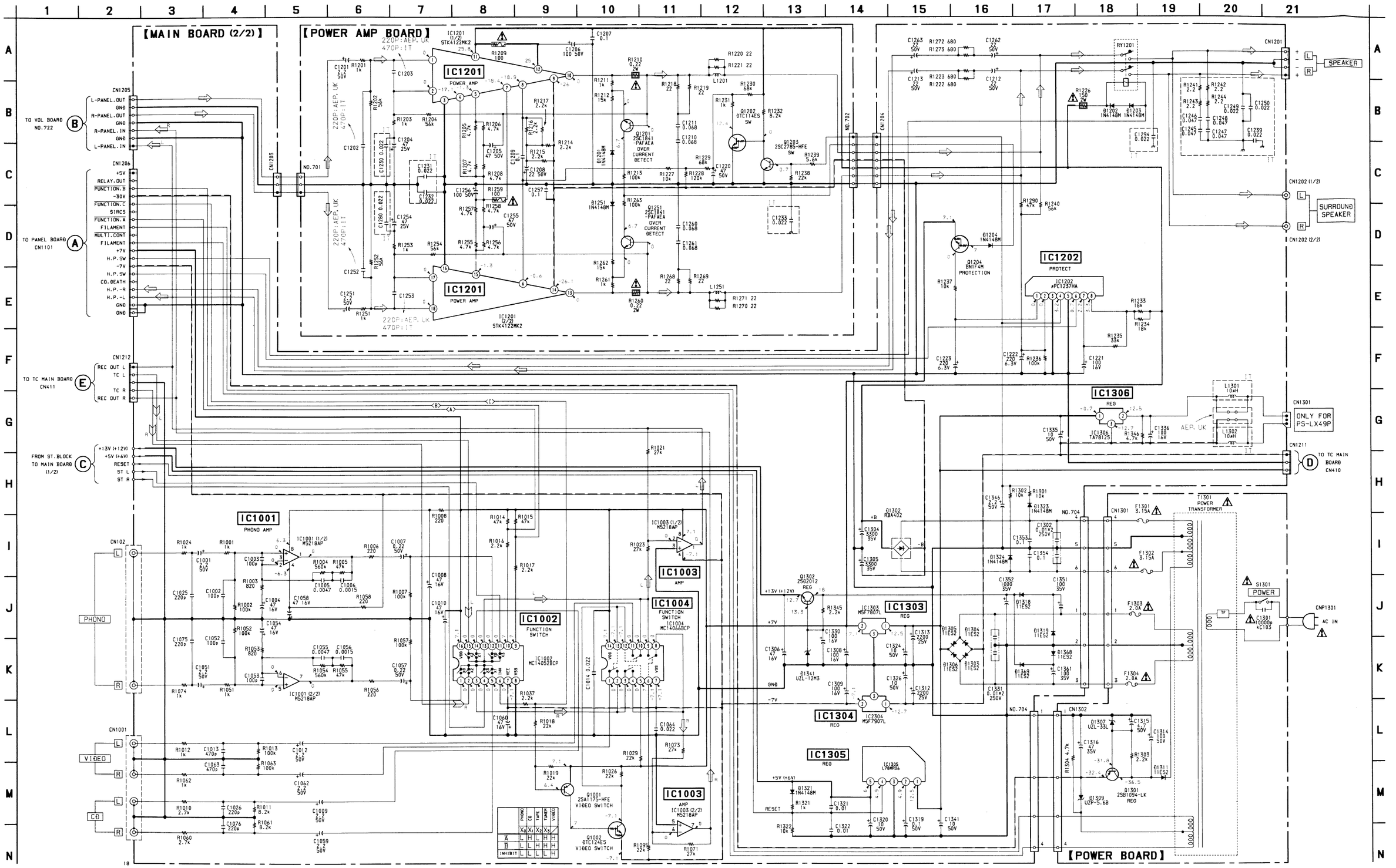
15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

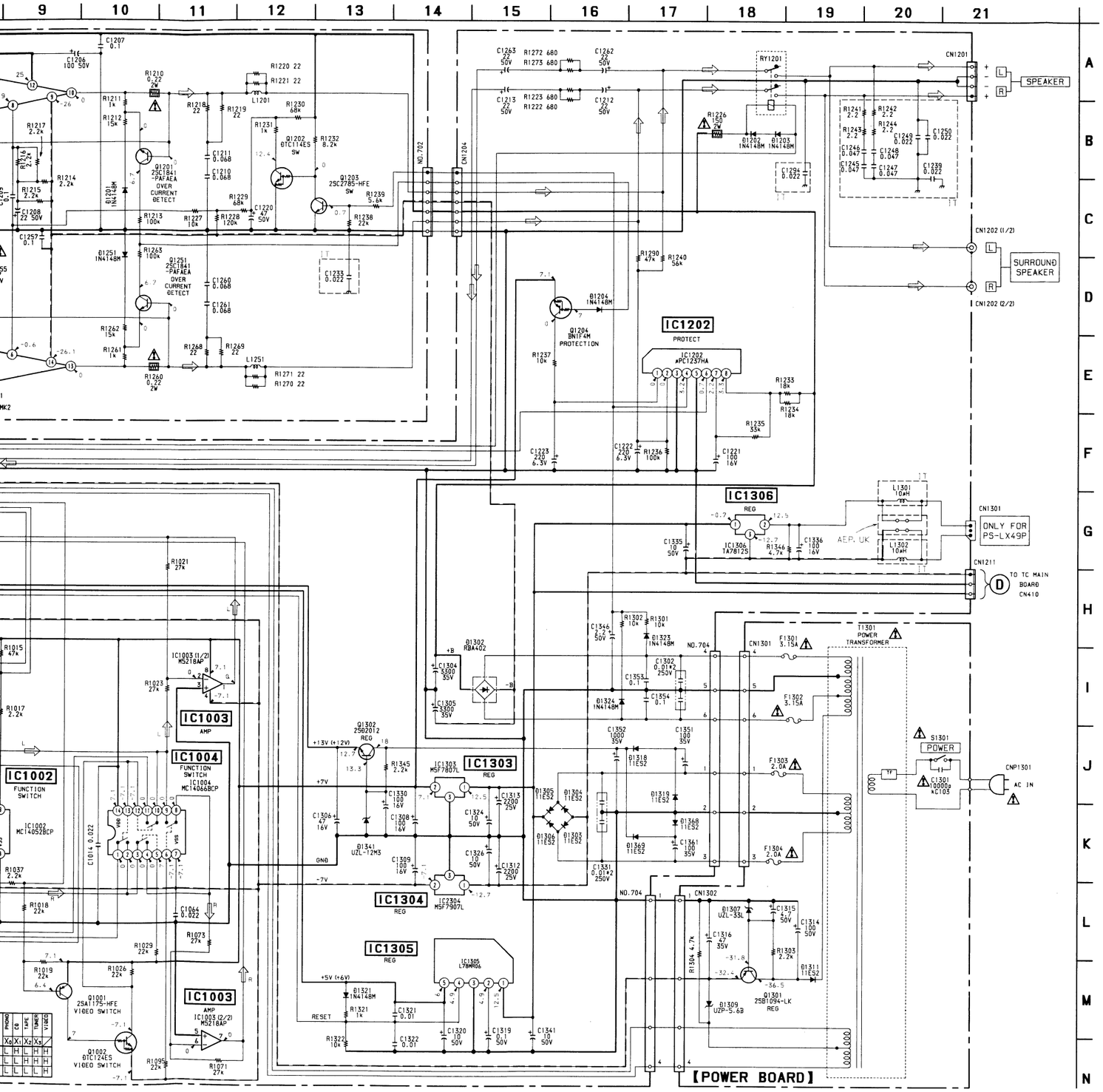


【POWER AMP BOARD】

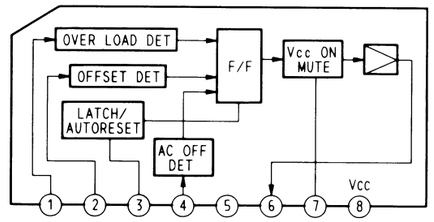


3-4. SCHEMATIC DIAGRAMS –AUDIO Section–





IC1202 μPC1237HA



Note:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu$F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : printed resistor.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

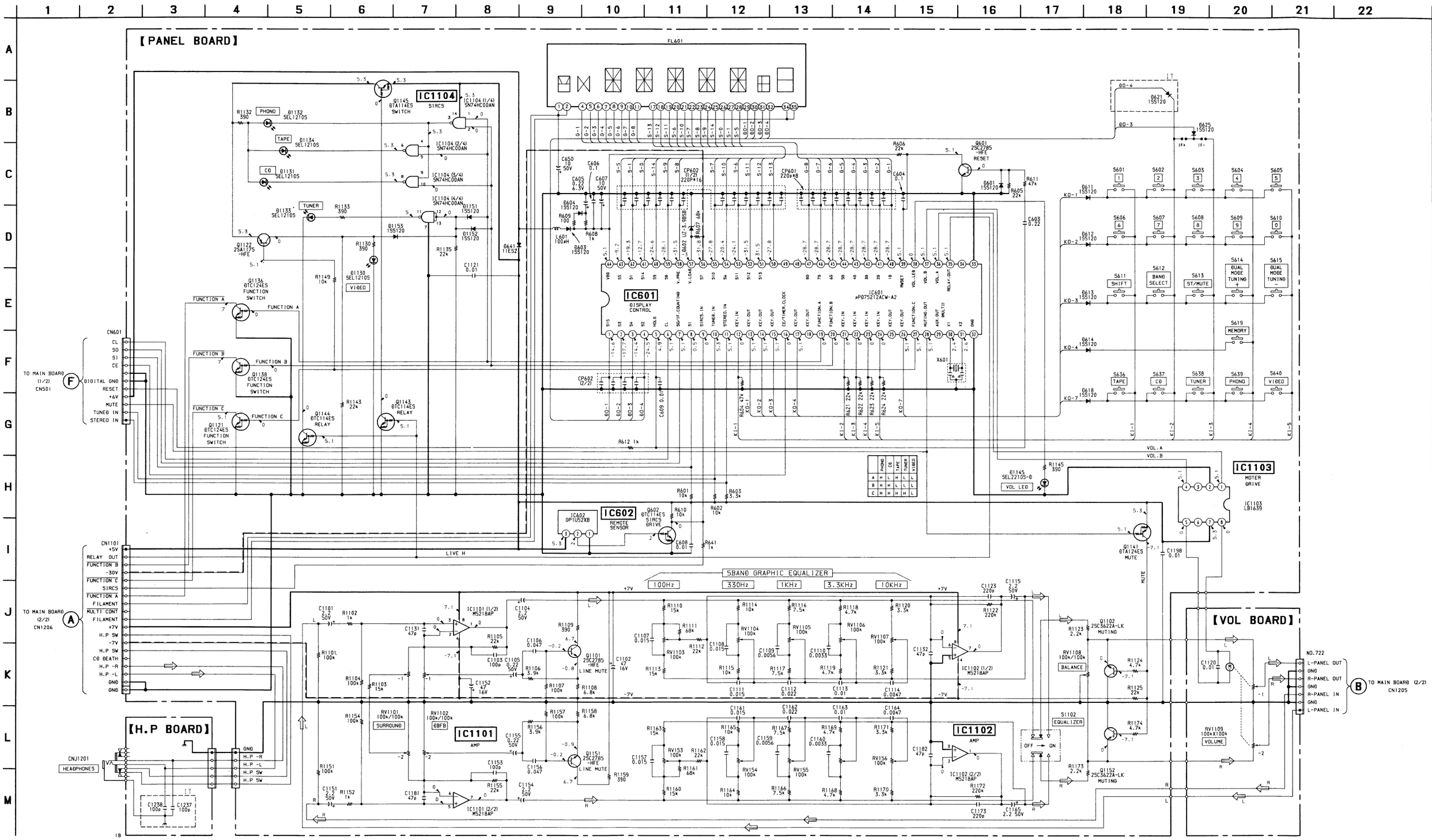
- : B+ Line
- : B− Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM Σ : PB (DECK A)

G: Germany

IT: Italian

3-5. SCHEMATIC DIAGRAMS –PANEL Section–

· See page 17 for note.



9 10 11 12 13 14 15 16 17 18 19 20 21 22

A B C D E F G H I J K L M

FL601

IC601 DISPLAY CONTROL

IC602 REMOTE SENSOR

IC1102 AMP

IC1103 MOTER DRIVE

5BAND GRAPHIC EQUALIZER

100Hz 330Hz 1KHz 3.3KHz 10KHz

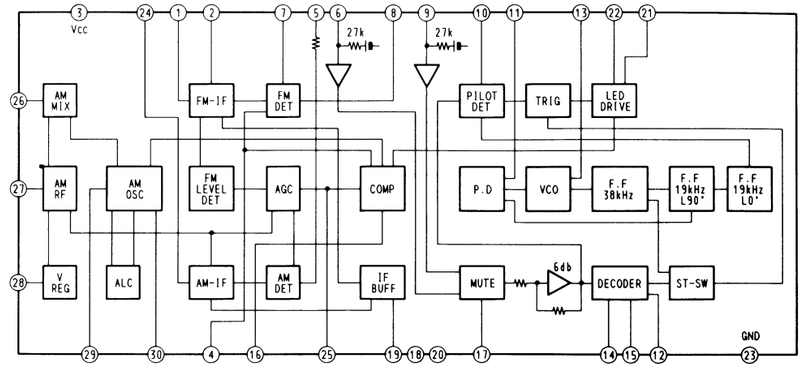
【VOL BOARD】

NO.722
L-PANEL OUT
GND
R-PANEL OUT
GND
R-PANEL IN
GND
L-PANEL IN

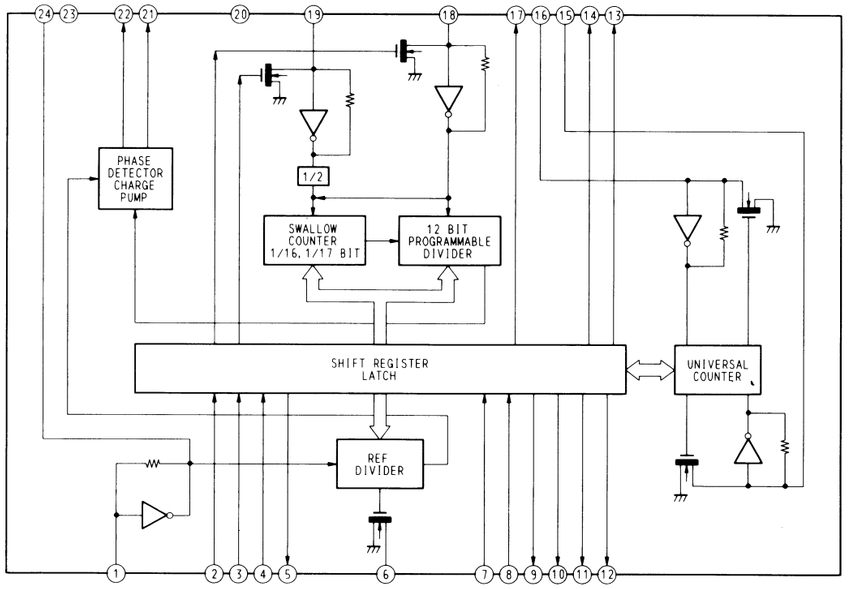
B TO MAIN BOARD (2/2) CN1205

● IC Block Diagrams

IC301 LA1851N

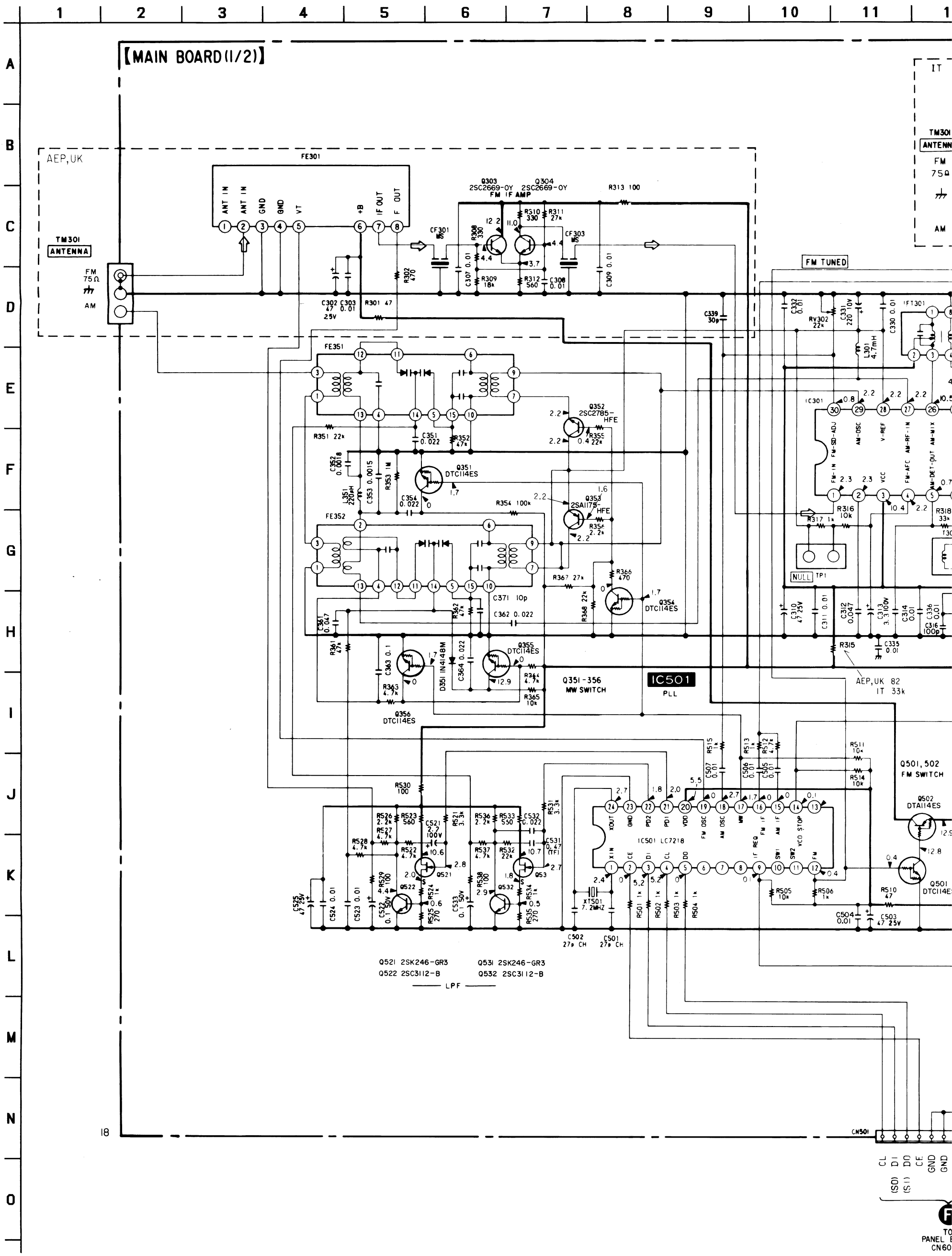


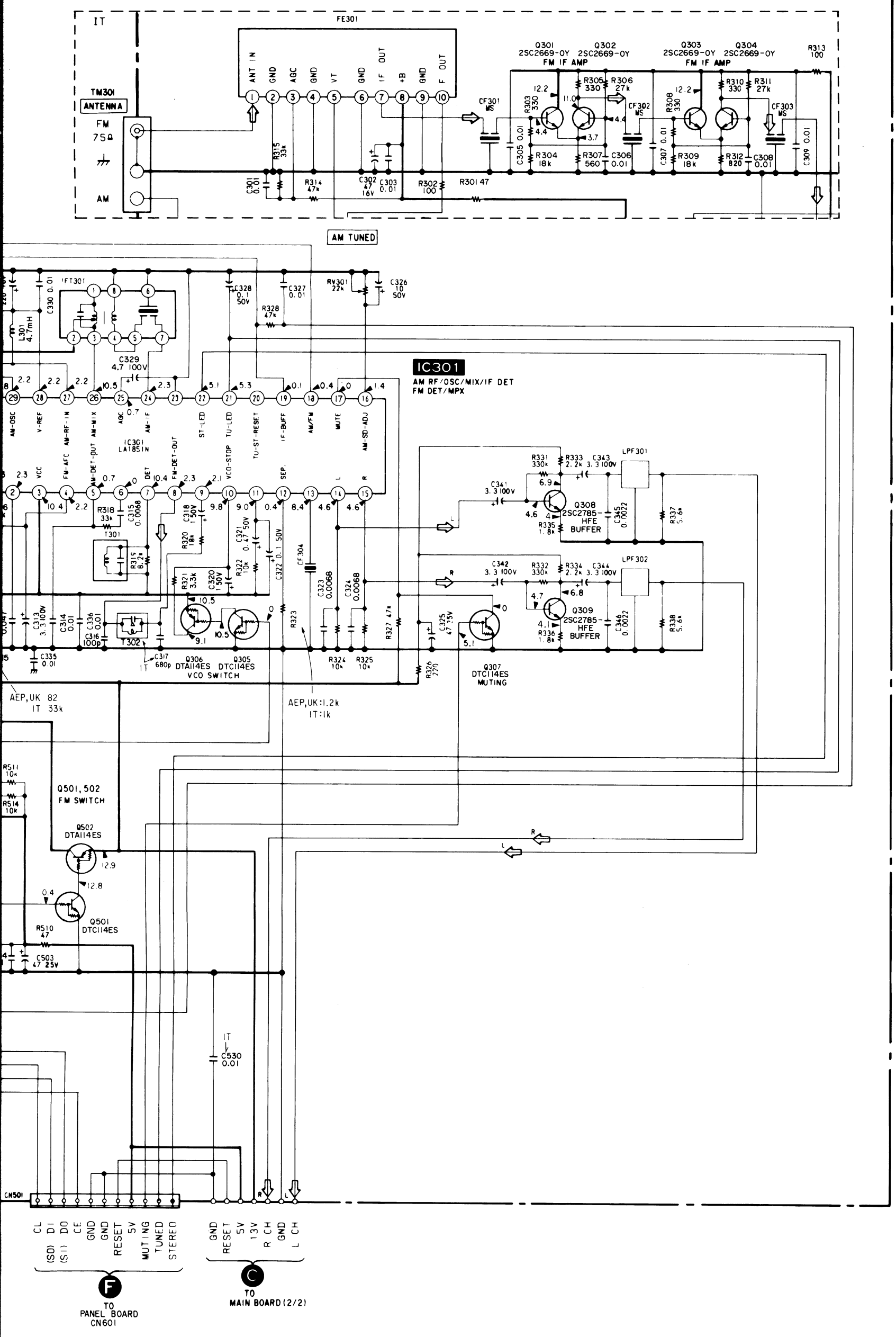
IC501 LC7218



3-6. SCHEMATIC DIAGRAMS TUNER Section–

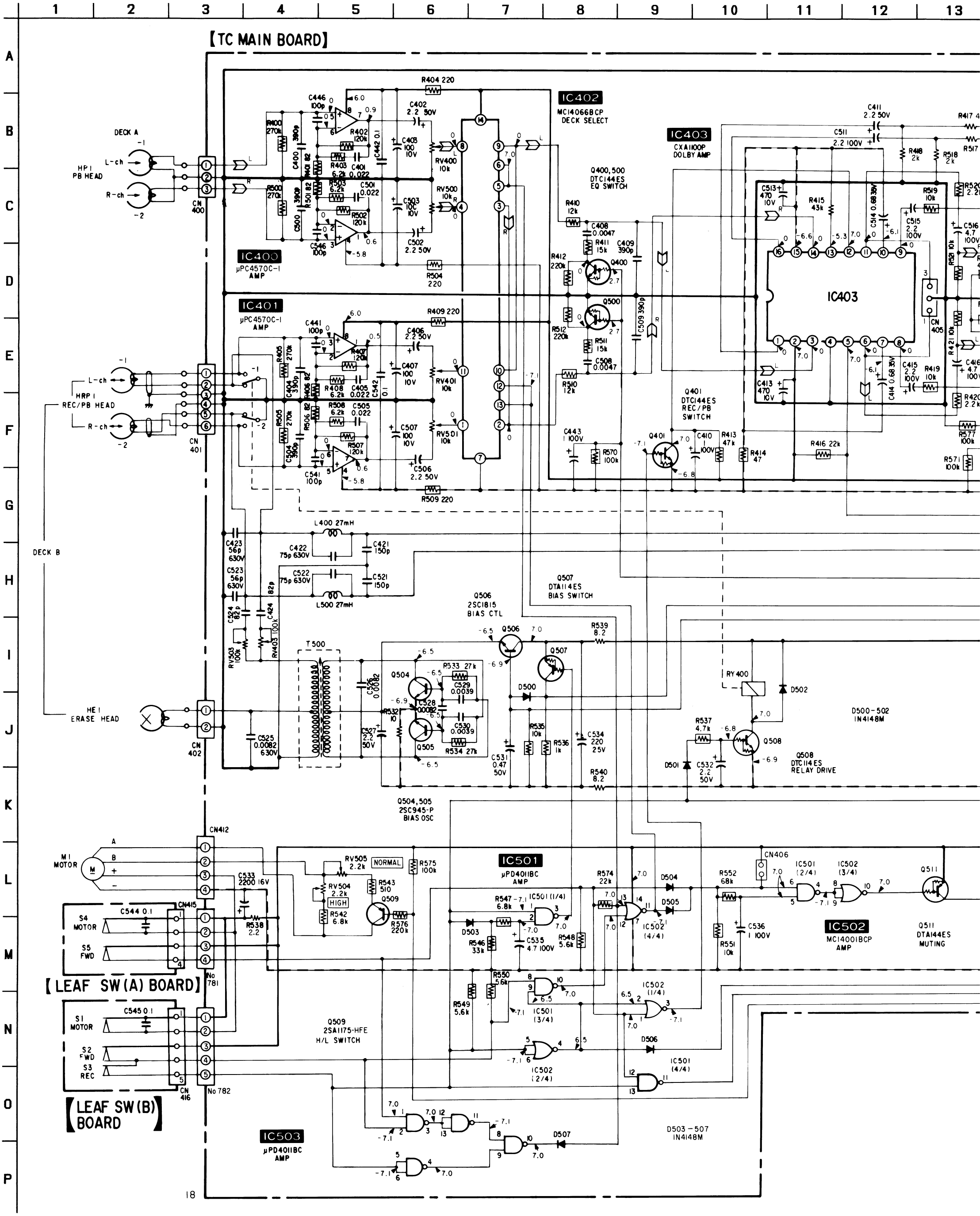
· See page 17 for note.

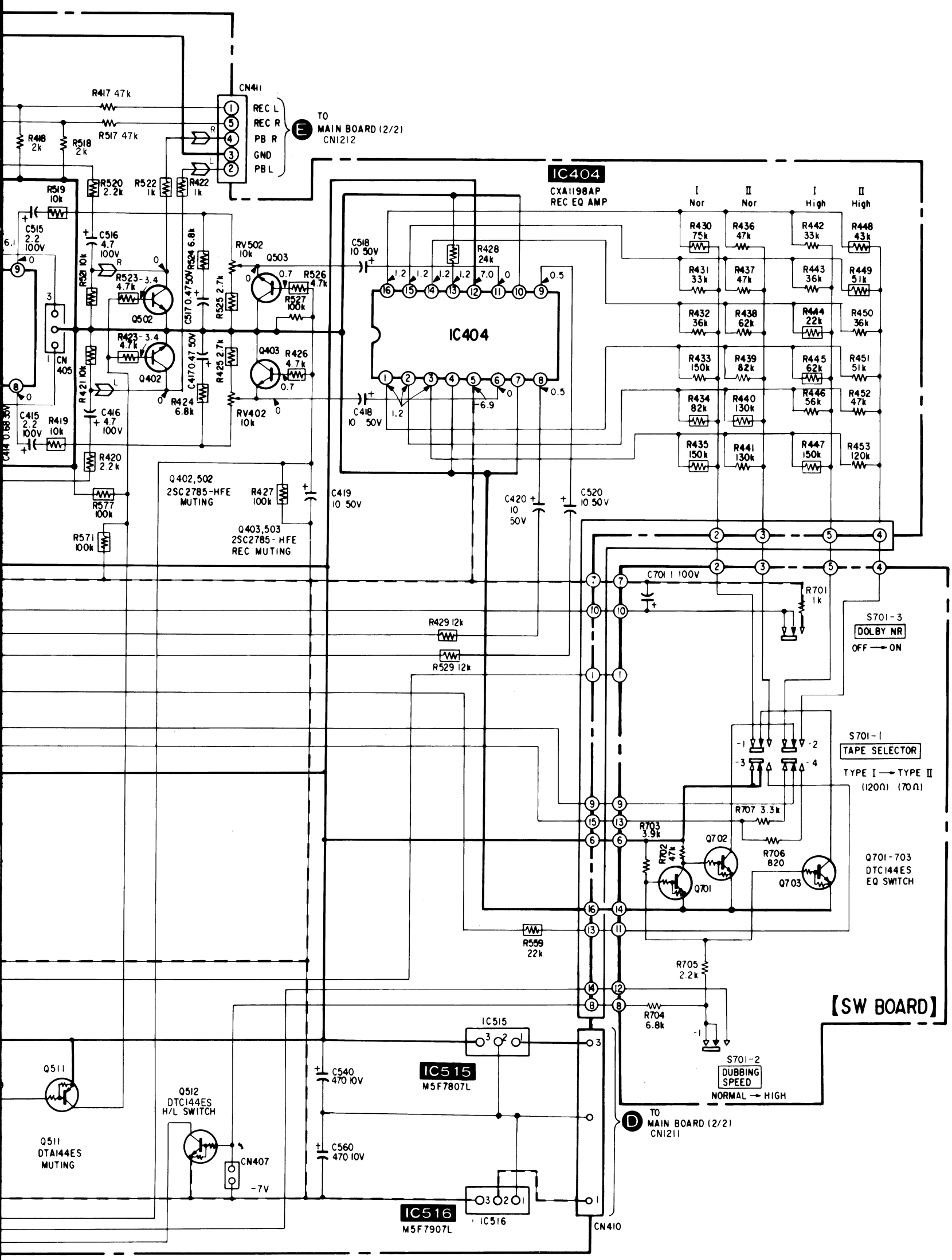



IT
FE301
ANT IN
GND
AGC
GND
VT
GND
IF OUT
+B
GND
F OUT
TM301
ANTENNA
FM
75Ω
AM
Q301 2SC2669-0Y
Q302 2SC2669-0Y
FM IF AMP
Q303 2SC2669-0Y
Q304 2SC2669-0Y
FM IF AMP
R313 100
CF301 MS
CF302 MS
CF303 MS
R303 330
R304 18k
R305 330
R306 27k
R307 560
C305 0.01
C306 0.01
R308 330
R309 18k
R310 330
R311 27k
R312 820
C307 0.01
C308 0.01
C309 0.01
C301 0.01
R315 33k
R314 47k
C302 47 16V
C303 0.01
R302 100
R301 47
AM TUNED
IFT301
C330 0.01
L301 4.7mH
C328 0.1 50V
C327 0.01
RV301 22k
C326 10 50V
R328 47k
C329 4.7 100V
IC301
AM RF/OSC/MIX/IF DET
FM DET/MPX
IC301 LA1851N
AM-OSC
V-REF
AM-RF-IN
AM-MIX
AGC
AM-IF
ST-LED
TU-LED
TU-ST-RESET
IF-BUFF
AM/FM
MUTE
AM-SD-ADJ
VCC
FM-AFC
AM-DET-OUT
DET
FM-DET-OUT
VCO-STOP
SEP.
L
R
R318 33k
C315 0.0068
T301
R319 8.2k
C318 1 50V
R320 18k
C321 0.47 50V
R322 10k
C322 0.1 50V
CF304
C323 0.0068
C324 0.0068
R321 3.3k
C320 1 50V
R323
R327 47k
C325 47 25V
R326 220
C313 3.3 100V
C314 0.01
C336 0.01
C316 100p
T302
C317 680p
C335 0.01
Q306 DTA114ES
Q305 DTC114ES
VCO SWITCH
R324 10k
R325 10k
Q307 DTC114ES
MUTING
AEP,UK 82
IT 33k
AEP,UK:1.2k
IT:1k
LPF301
LPF302
R331 330k
R333 2.2k
C343 3.3 100V
C341 3.3 100V
Q308 2SC2785-HFE BUFFER
R335 1.8k
C345 0.0022
R337 5.6k
R332 330k
R334 2.2k
C344 3.3 100V
C342 3.3 100V
Q309 2SC2785-HFE BUFFER
R336 1.8k
C346 0.0022
R338 5.6k
Q501, 502
FM SWITCH
Q502 DTA114ES
Q501 DTC114ES
R510 47
C503 47 25V
R511 10k
R514 10k
IT
C530 0.01
CN501
CL
(SD) DI
(SI) DO
CE
GND
GND
RESET
5V
MUTING
TUNED
STEREO
GND
RESET
5V
13V
R CH
GND
L CH
F
TO PANEL BOARD CN601
C
TO MAIN BOARD (2/2)

3-7. SCHEMATIC DIAGRAMS –TC Section–

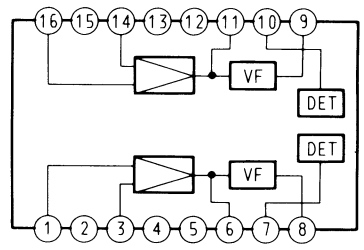
· See page 17 for note.



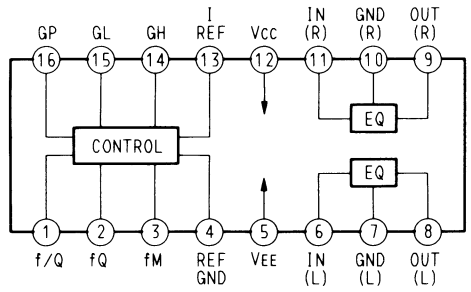


● IC Block Diagrams

IC403 CXA1100AP



IC404 CXA1198AP

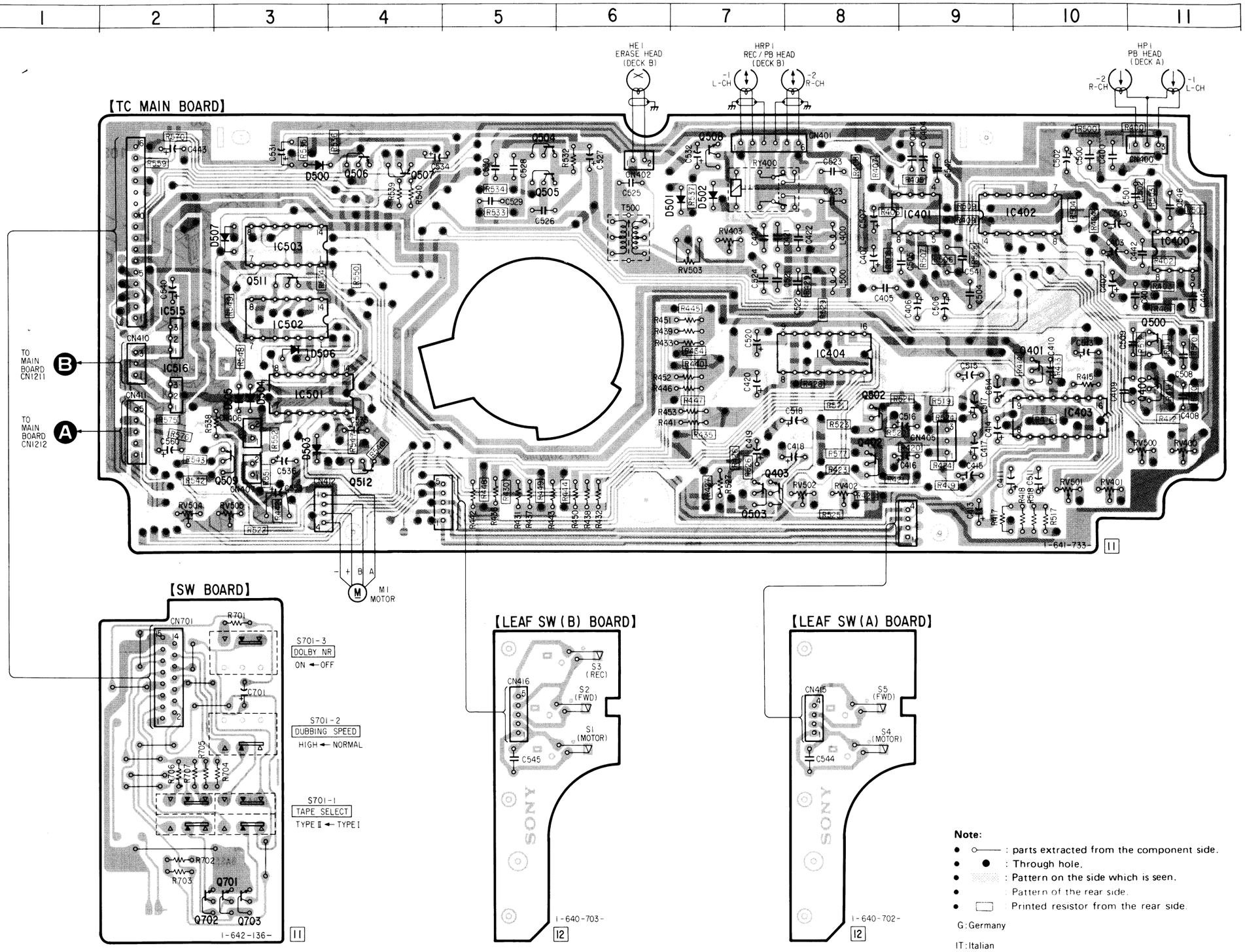


3-8. PRINTED WIRING BOARDS –TC Section–

· See page 9 for circuit boards location.

● **Semiconductor Location**

Ref. No.	Location
D500	B-3
D501	B-7
D502	B-7
D503	D-3
D504	D-3
D505	D-3
D506	C-3
D507	B-3
IC400	B-11
IC401	B-9
IC402	B-10
IC403	D-10
IC404	C-8
IC501	D-3
IC502	C-3
IC503	B-3
IC515	C-2
IC516	D-2
Q400	D-11
Q401	C-10
Q402	D-8
Q403	E-7
Q500	C-11
Q502	D-8
Q503	E-7
Q504	B-5
Q505	B-5
Q506	B-4
Q507	B-4
Q508	B-8
Q509	D-3
Q511	C-3
Q512	D-4
Q701	H-3
Q702	H-2
Q703	H-3

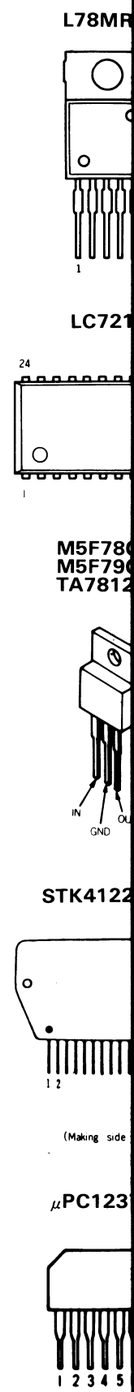


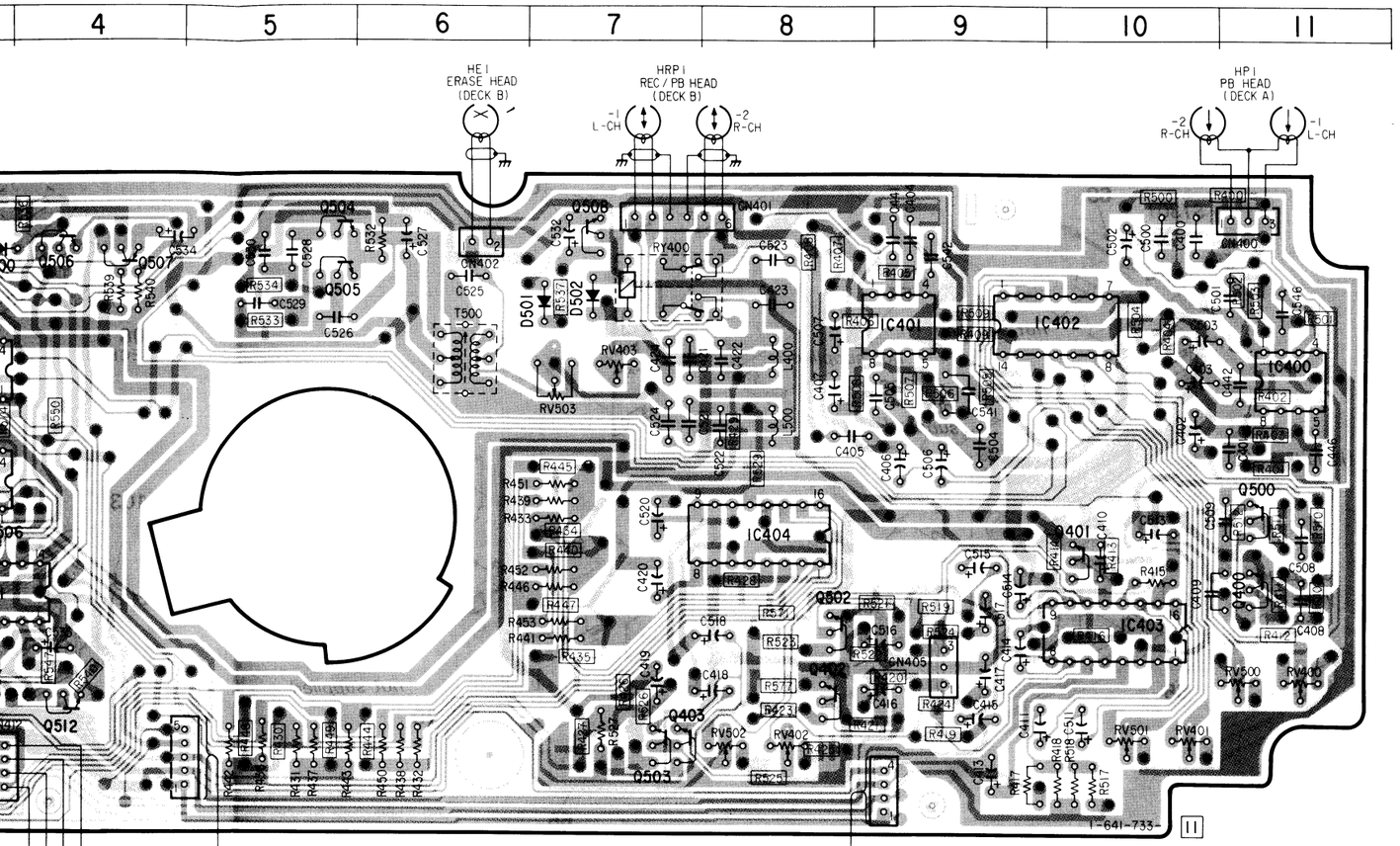
Note:

- ○—— : parts extracted from the component side.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
- Pattern of the rear side.
- ▭ Printed resistor from the rear side.

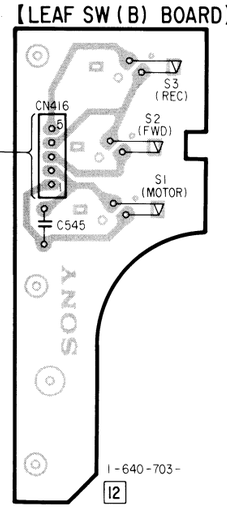
G : Germany

IT : Italian

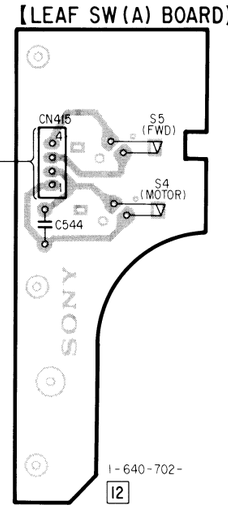




【LEAF SW (B) BOARD】



【LEAF SW (A) BOARD】



Note:

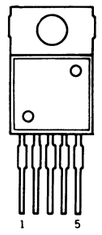
- ○—— : parts extracted from the component side.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
- ▩ : Pattern of the rear side.
- ▭ : Printed resistor from the rear side.

G : Germany

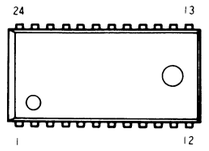
IT : Italian

3-9. SEMICONDUCTOR LEAD LAYOUTS

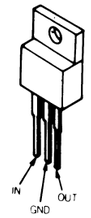
L78MR06



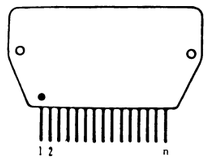
LC7218



M5F7807L
M5F7907L
TA7812S

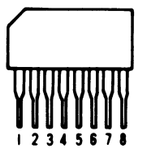


STK4122MK2

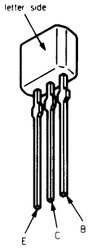


(Making side View)

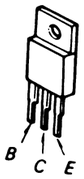
μPC1237HA



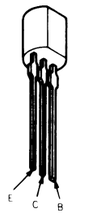
2SA1175-HFE
2SC2785-HFE



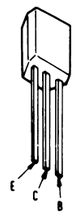
2SB1094-LK
2SC1815-Y
2SD2012



2SC1841-PAFAEA



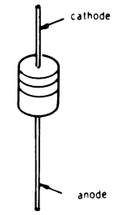
2SC2669-OY
2SC3622A-LK
DTA114ES
DTA124ES
DTA144ES
DTC114ES
DTC124ES
DTC144ES



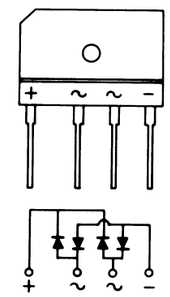
2SC3112-B
2SC945-P

2SK246-GR3

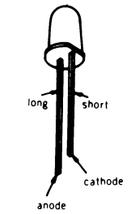
11ES2
1SS120
UZ-3.9BSB
UZL-12M3
UZL-33L
UZP-5.6B



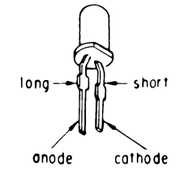
PBA-402



SEL1210S



SEL2210S-D



SECTION 4
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE(WHITE)...(RED)
  ↑ ↑
  Parts color Cabinet's color

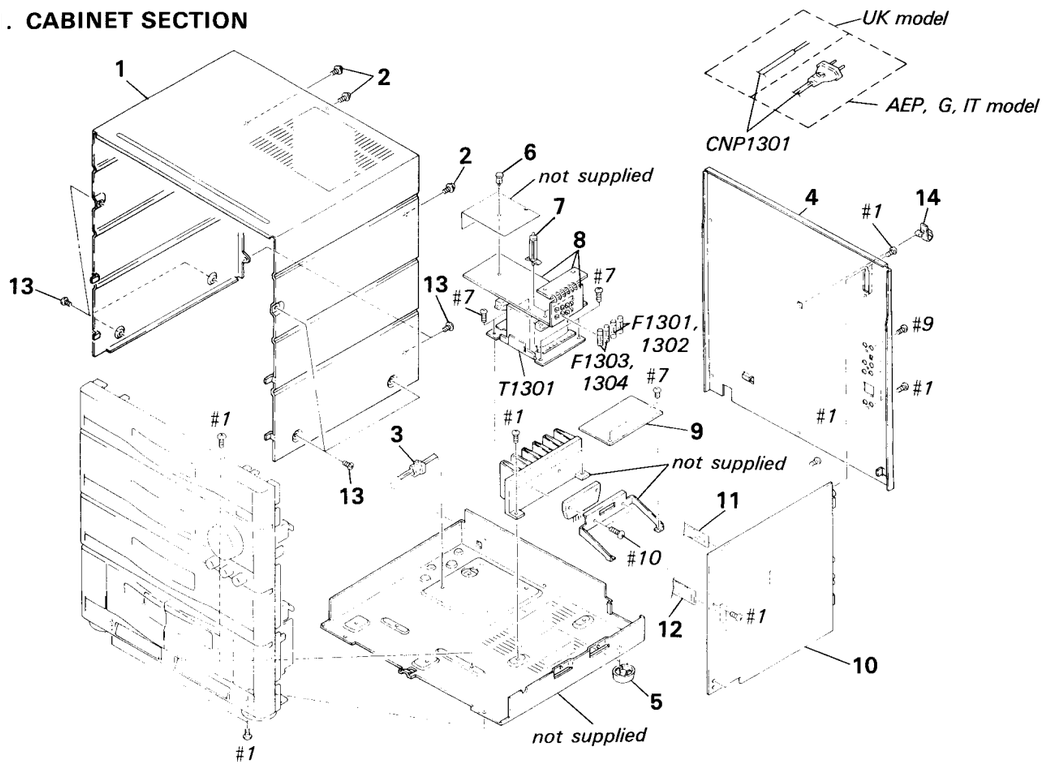
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- hardware (#mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

G: Germany

IT: Italian

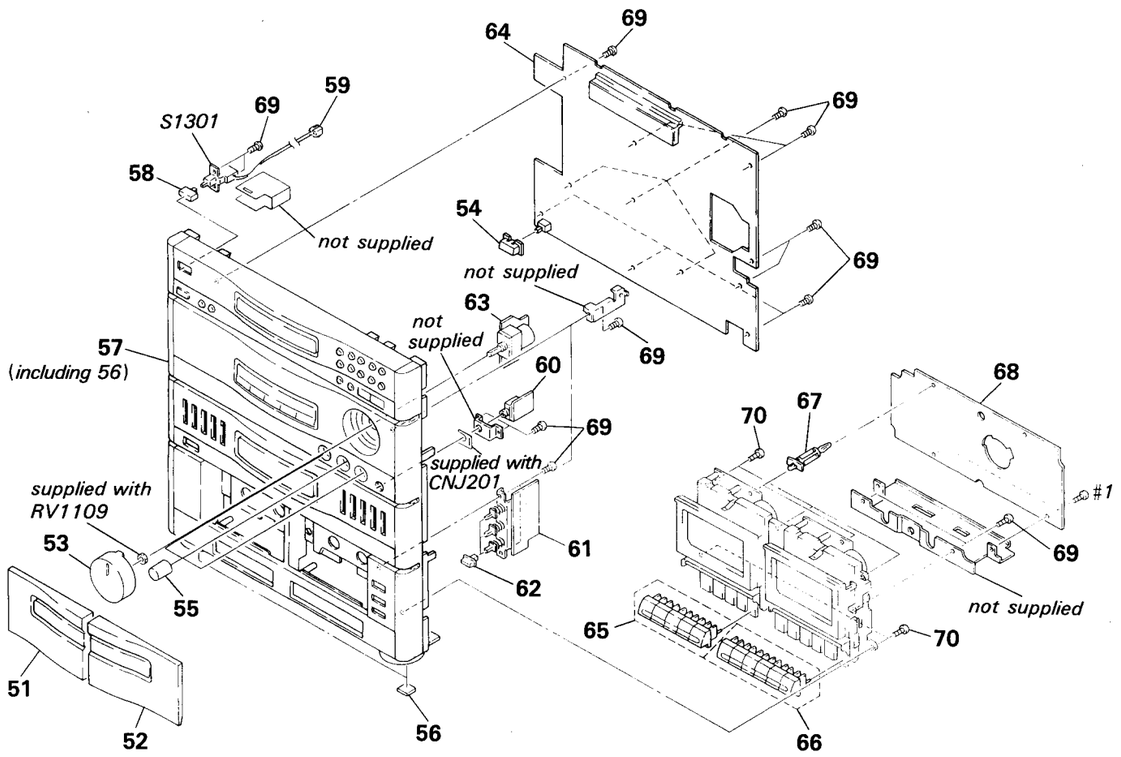
4-1. CABINET SECTION



Ref. No.	Part No.	Description	Remark
* 1	4-943-170-11	CASE (AEP, UK, G)	
* 1	4-943-170-52	CASE (IT)	
2	4-929-973-01	SCREW (CASE, 3 POINT)	
* 3	3-703-244-00	BUSHING (2104), CORD	
* 4	4-948-286-11	PANEL, BACK (AEP)	
* 4	4-948-286-21	PANEL, BACK (UK)	
* 4	4-948-286-31	PANEL, BACK (IT)	
* 4	4-948-286-41	PANEL, BACK (G)	
5	X-4941-228-1	FOOT ASSY	
6	4-812-134-11	RIVET NYLON, 3.5	
* 7	4-943-687-21	HOLDER, PC BOARD	
* 8	1-642-135-11	POWER BOARD	
* 9	A-4345-986-A	POWER AMP BOARD, COMPLETE (AEP, UK)	
* 9	A-4347-357-A	POWER AMP BOARD, COMPLETE (G, IT)	

Ref. No.	Part No.	Description	Remark
* 10	A-4345-984-A	MAIN BOARD, COMPLETE (AEP, UK)	
* 10	A-4347-353-A	MAIN BOARD, COMPLETE (G, IT)	
11	1-590-459-11	WIRE, FLAT TYPE (11 CORE)	
12	1-590-578-11	WIRE, FLAT TYPE (19 CORE)	
13	3-363-099-01	SCREW (CASE +3X8 TP2)	
* 14	4-949-235-01	HOOK	
⚠ CNP1301	1-575-651-61	CORD, POWER (AEP, G, IT)	
⚠ CNP1301	1-575-652-21	CORD, POWER (UK)	
⚠ F1301	1-532-350-00	FUSE (4.0A)	
⚠ F1302	1-532-350-00	FUSE (4.0A)	
⚠ F1303	1-532-203-00	FUSE (2.0A)	
⚠ F1304	1-532-203-00	FUSE (2.0A)	
⚠ T1301	1-450-315-11	TRANSFORMER, POWER	

4-2. FRONT PANEL SECTION

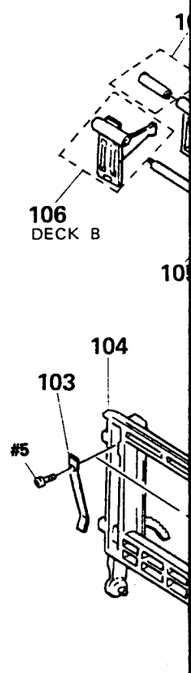


Ref. No.	Part No.	Description	Remark
51	A-4325-346-A	LID (A) ASSY, CASSETTE (AEP, UK, G)	
51	A-4325-422-A	LID (A) ASSY, CASSETTE (IT)	
52	A-4325-347-A	LID (B) ASSY, CASSETTE (AEP, UK, G)	
52	A-4325-423-A	LID (B) ASSY, CASSETTE (IT)	
53	A-4323-382-A	KNOB (VO) ASSY	
54	4-948-272-01	BUTTON (EQ)	
55	4-948-270-01	KNOB (DSB)	
56	4-948-236-01	CUSHION (107)	
57	A-4325-392-A	PANEL ASSY, FRONT (AEP, UK, G)	
57	A-4325-518-A	PANEL ASSY, FRONT (IT)	
58	4-930-783-11	BUTTON (PO)	
* 59	1-690-708-11	CORD (WITH CONNECTOR)	
* 60	1-641-790-11	H.P. BOARD	

Ref. No.	Part No.	Description	Remark
* 61	1-642-136-11	SW BOARD	
62	4-948-257-01	BUTTON (DDT)	
* 63	1-641-789-11	VOL BOARD	
* 64	A-4345-979-A	PANEL BOARD, COMPLETE (AEP, UK, G)	
* 64	A-4347-358-A	PANEL BOARD, COMPLETE (IT)	
65	4-948-258-01	BUTTON (MD-A)	
66	4-948-259-01	BUTTON (MD-B)	
* 67	4-924-098-31	HOLDER, PC BOARD	
* 68	A-4345-901-A	TC MAIN BOARD, COMPLETE	
69	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
70	4-928-635-21	SCREW, +BV (2.6X10) TAPPING	
⚠ S1301	1-572-267-61	SWITCH, PUSH (AC POWER) (1 KEY)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

4-3. MECHANISM (TCM-180W-H7



Ref. No.	Part No.
101	3-358-287-01
102	3-358-229-01
103	3-358-209-01
104	3-358-266-02
105	3-371-917-01
106	3-369-335-01
* 107	3-358-216-01
* 108	1-640-702-12
* 109	3-358-289-01
110	3-358-203-01
111	3-358-202-01
* 112	3-363-930-01

ments identified by
dotted line with mark
al for safety.
y with part number

model

EP, G, IT model

14

#9

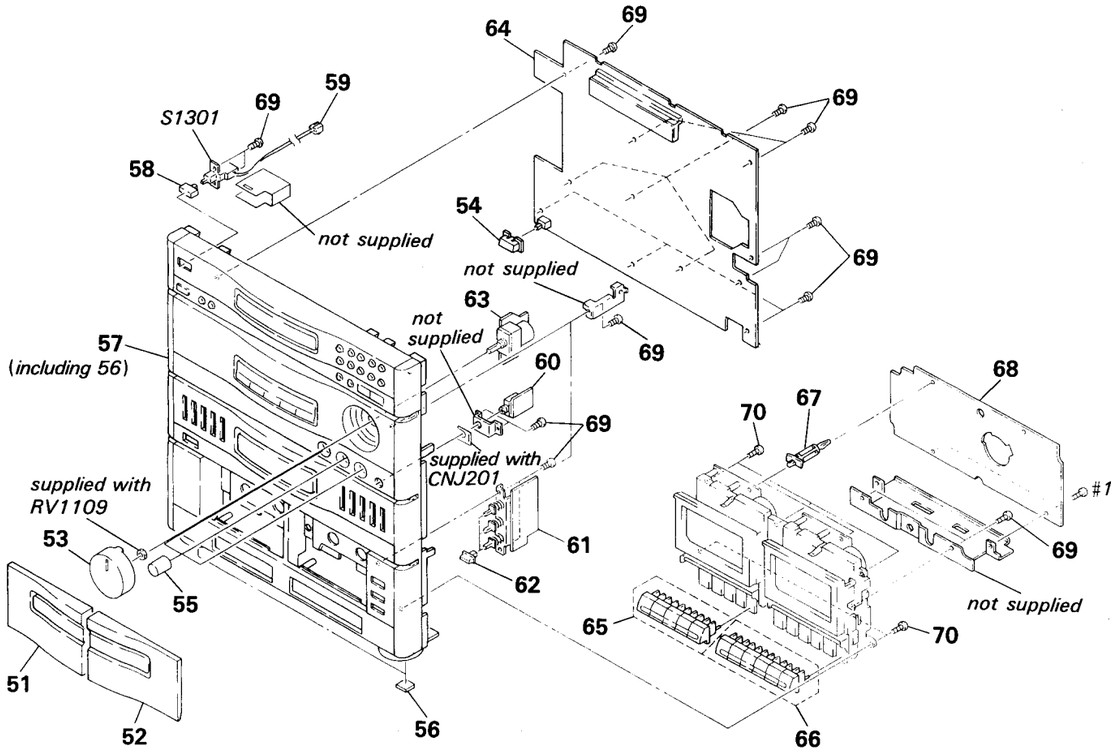
#1

Remark

TE (AEP, UK)
TE (G, IT)
1 CORE)
9 CORE)
P2)

IT)

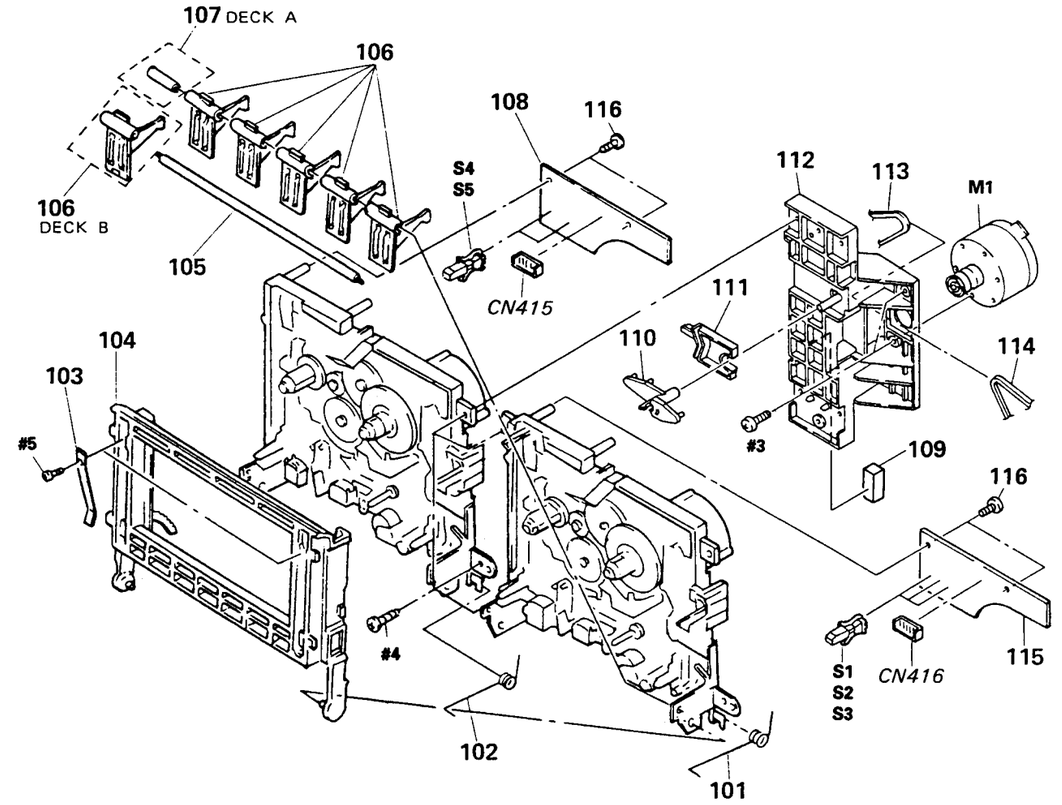
4-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	A-4325-346-A	LID (A) ASSY, CASSETTE (AEP, UK, G)	
51	A-4325-422-A	LID (A) ASSY, CASSETTE (IT)	
52	A-4325-347-A	LID (B) ASSY, CASSETTE (AEP, UK, G)	
52	A-4325-423-A	LID (B) ASSY, CASSETTE (IT)	
53	A-4323-382-A	KNOB (VO) ASSY	
54	4-948-272-01	BUTTON (EQ)	
55	4-948-270-01	KNOB (DSB)	
56	4-948-236-01	CUSHION (107)	
57	A-4325-392-A	PANEL ASSY, FRONT (AEP, UK, G)	
57	A-4325-518-A	PANEL ASSY, FRONT (IT)	
58	4-930-783-11	BUTTON (PO)	
* 59	1-690-708-11	CORD (WITH CONNECTOR)	
* 60	1-641-790-11	H.P. BOARD	
* 61	1-642-136-11	SW BOARD	
62	4-948-257-01	BUTTON (DDT)	
* 63	1-641-789-11	VOL BOARD	
* 64	A-4345-979-A	PANEL BOARD, COMPLETE (AEP, UK, G)	
* 64	A-4347-358-A	PANEL BOARD, COMPLETE (IT)	
65	4-948-258-01	BUTTON (MD-A)	
66	4-948-259-01	BUTTON (MD-B)	
* 67	4-924-098-31	HOLDER, PC BOARD	
* 68	A-4345-901-A	TC MAIN BOARD, COMPLETE	
69	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
70	4-928-635-21	SCREW, +BV (2.6X10) TAPPING	
⚠ S1301	1-572-267-61	SWITCH, PUSH (AC POWER) (1 KEY)	

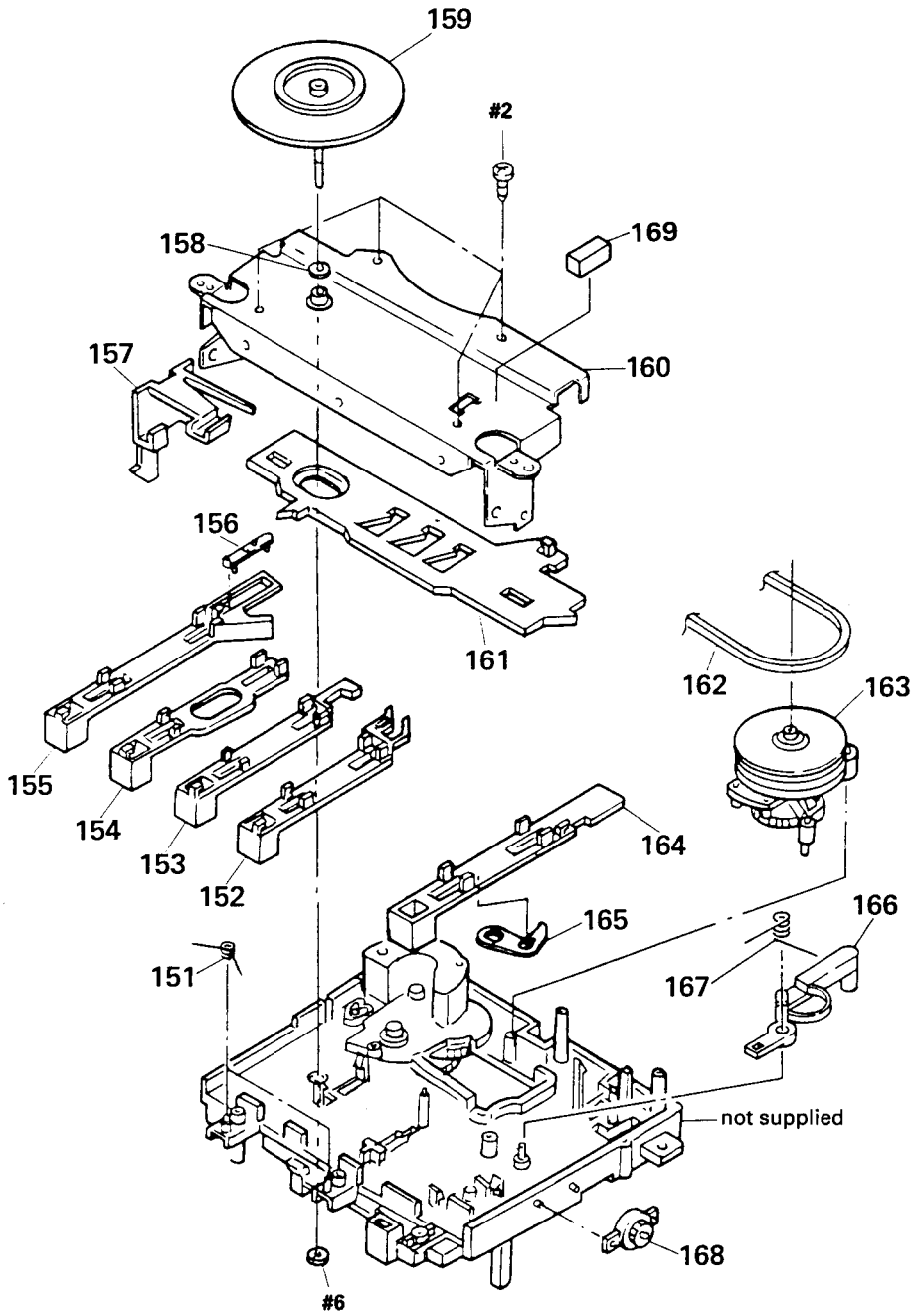
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

4-3. MECHANISM DECK SECTION-1
(TCM-180W-H7)



Ref. No.	Part No.	Description	Remark
101	3-358-287-01	SPRING (LOADING A), TORSION	
102	3-358-229-01	SPRING (LOADING), TORSION	
103	3-358-209-01	SPRING (CASSETTE HOLDER), LEAF	
104	3-358-266-02	HOLDER, CASSETTE	
105	3-371-917-01	SHAFT (BUTTON SHAFT 4)	
106	3-369-335-01	LEVER (BUTTON BASE F)	
* 107	3-358-216-01	COLLAR (DECK A)	
* 108	1-640-702-12	LEAF SW (A) BOARD	
* 109	3-358-289-01	SPACER (VIBRATION PROOF MAT)	
110	3-358-203-01	LEVER (TRIGGER)	
111	3-358-202-01	SLIDER (TRIGGER)	
* 112	3-363-930-01	BRACKET (JOINT BASE)	
113	3-358-230-01	BELT (A1)	
114	3-364-777-01	BELT (WH)	
* 115	1-640-703-12	LEAF SW (B) BOARD	
116	4-928-635-01	SCREW +BV (2.6X8) TAPPING	
* CN415	1-568-942-11	PIN, CONNECTOR 4P	
* CN416	1-568-943-11	PIN, CONNECTOR 5P	
M1	X-3362-377-1	MOTOR (WH) ASSY	
S1	1-571-736-11	SWITCH, LEAF (MOTOR)	
S2	1-571-736-11	SWITCH, LEAF (FWD)	
S3	1-571-736-11	SWITCH, LEAF (REC)	
S4	1-571-736-11	SWITCH, LEAF (MOTOR)	
S5	1-571-736-11	SWITCH, LEAF (FWD)	

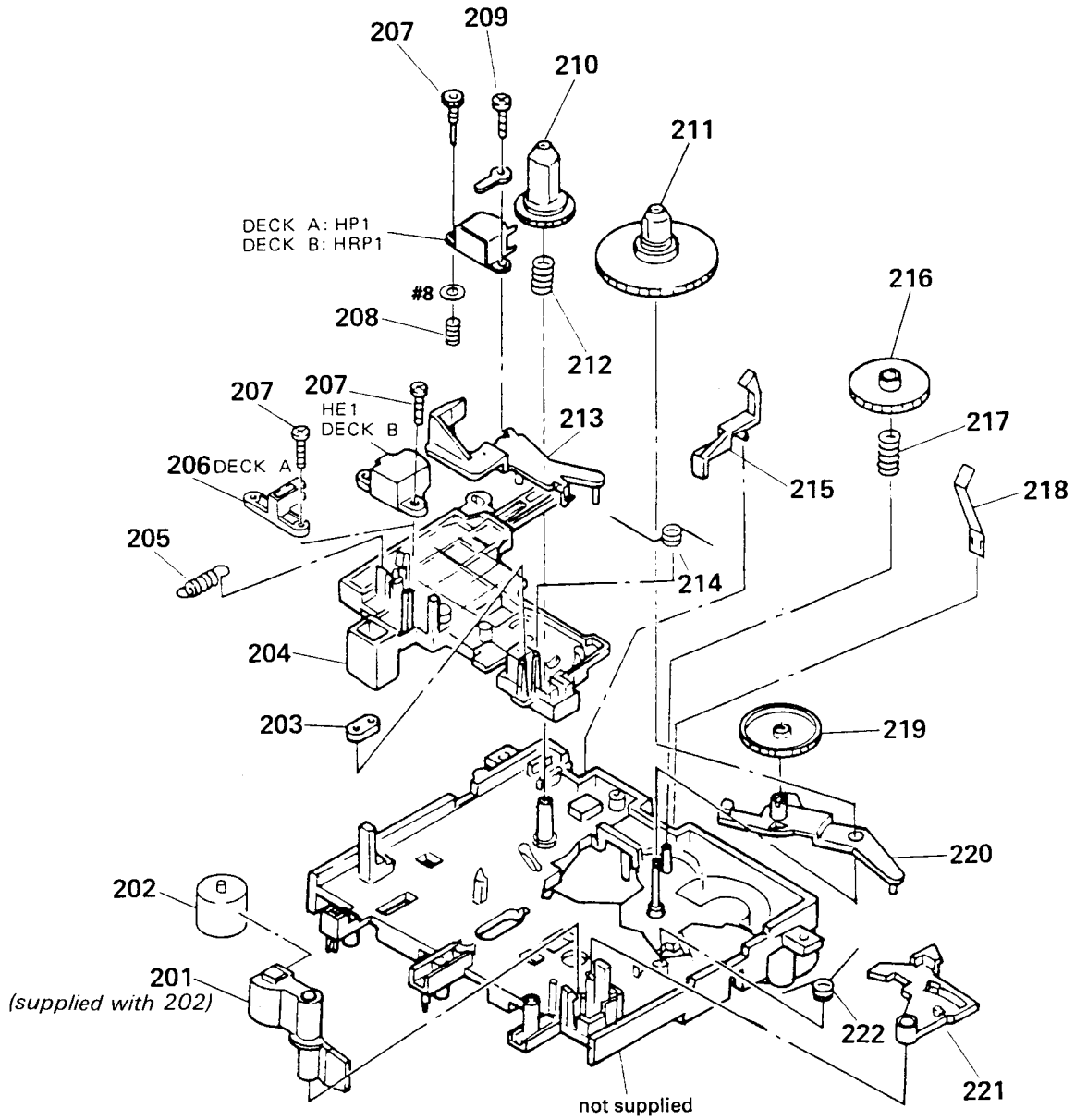
4-4. MECHANISM DECK SECTION-2
(TCM-180VW-H7)



Ref. No.	Part No.	Description	Remark
151	3-358-232-01	SPRING (S-P F-R), TORSION	
152	3-358-258-01	SLIDER (REW)	
153	3-358-257-01	SLIDER (FF)	
154	3-358-256-01	SLIDER (STOP/EJECT)	
155	3-358-260-01	SLIDER (PAUSE)	
* 156	3-358-226-01	LEVER (PAUSE LEVER)	
* 157	3-358-261-02	SLIDER (HOLDER LOCK)	
158	3-701-437-01	WASHER	
159	X-3358-205-1	FLYWHEEL (A) ASSY (DECK A)	
159	X-3358-206-1	FLYWHEEL (B) ASSY (DECK B)	
* 160	X-3358-208-1	BRACKET (B) ASSY	

Ref. No.	Part No.	Description	Remark
* 161	3-358-249-01	SLIDER (LOCK PLATE)	
162	3-358-230-01	BELT (A1)	
163	X-3358-202-1	LEVER (FR ARM) ASSY	
164	3-358-259-01	SLIDER (REC) (DECK B)	
* 165	3-358-204-01	LEVER (REC SAFETY) (DECK B)	
166	3-358-286-01	LEVER (MOTOR LEVER)	
167	3-358-214-01	SPRING (LOCK), TORSION (DECK A)	
167	3-358-233-01	SPRING (REC-LOCK), TORSION (DECK B)	
168	3-319-224-41	DAMPER, SMALL	
* 169	3-358-289-01	SPACER (VIBRATION PROOF MAT)	

4-5. MECHANISM DECK SECTION-3
(TCM-180VW-H7)



Ref. No.	Part No.	Description	Remark
201	X-3358-204-1	LEVER (PINCH LEVER) ASSY	
202	3-578-143-11	PINCH ROLLER	
* 203	3-358-215-01	BUSHING (WIRE KIT RETAINER)	
204	3-358-265-01	SLIDER (HEAD PC BOARD A)	
205	3-358-217-01	SPRING, TENSION	
* 206	3-363-931-01	GUIDE, TAPE (DECK A)	
207	3-358-288-11	SCREW (T), AZIMUTH	
208	3-358-234-01	SPRING (AZIMUTH), COMPRESSION	
209	3-358-288-01	SCREW (T), AZIMUTH	
210	3-358-248-01	GEAR (SUPPLY REEL)	
211	X-3358-203-1	TABLE (T) ASSY, REEL	
212	3-358-208-01	SPRING (SUPPLY), COMPRESSION	
* 213	3-358-251-01	LEVER (TENSION DETECTION ARM)	

Ref. No.	Part No.	Description	Remark
214	3-358-228-01	SPRING, TORSION	
* 215	3-358-255-01	LEVER (GB LEVER)	
* 216	3-358-224-01	GEAR (FF GEAR)	
217	3-358-207-01	SPRING (FF GEAR), COMPRESSION	
218	3-358-227-01	SPRING, LEAF	
* 219	3-358-284-01	GEAR (TU GEAR)	
* 220	3-358-252-01	LEVER (TU ARM)	
* 221	3-358-253-01	LEVER (SHUT-OFF LEVER)	
222	3-358-243-01	SPRING (TU-SHUT), TORSION	
HE1	1-543-673-11	HEAD, MAGNETIC (ERASE) (DECK B)	
HP1	1-543-319-11	HEAD, MAGNETIC (PB) (DECK A)	
HRP1	1-543-319-11	HEAD, MAGNETIC (REC/PB) (DECK B)	

SECTION 5
ELECTRICAL PARTS LIST

H. P. | LEAF SW(A) | LEAF SW(B) | MAIN

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- RESISTORS
  All resistors are in ohms
  METAL:Metal-film resistor
  METAL OXIDE:Metal Oxide-film resistor
  F:nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ , for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indication parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

G:Germany

IT:Italian

Ref. No.	Part No.	Description			Remark
*	1-641-790-11	H. P. BOARD			
		**********			
		< CAPACITOR >			
C1237	1-162-282-31	CERAMIC	100PF	10% 50V	(G, IT)
C1238	1-162-282-31	CERAMIC	100PF	10% 50V	(G, IT)
		< CONNECTOR >			
CNJ120	1-691-003-21	JACK, LARGE TYPE			
**********					
	1-640-702-12	LEAF SW (A) BOARD			
		**********			
		< CAPACITOR >			
C544	1-164-159-11	CERAMIC	0.1uF	50V	
		< CONNECTOR >			
* CN415	1-568-942-11	PIN, CONNECTOR 4P			
		< SWITCH >			
S4	1-571-736-11	SWITCH, LEAF (MOTOR)			
S5	1-571-736-11	SWITCH, LEAF (FWD)			
**********					
	1-640-703-12	LEAF SW (B) BOARD			
		**********			
		< CAPACITOR >			
C545	1-164-159-11	CERAMIC	0.1uF	50V	

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
* CN416	1-568-943-11	PIN, CONNECTOR 5P			
		< SWITCH >			
S1	1-571-736-11	SWITCH, LEAF (MOTOR)			
S2	1-571-736-11	SWITCH, LEAF (FWD)			
S3	1-571-736-11	SWITCH, LEAF (REC)			
**********					
*	A-4345-984-A	MAIN BOARD, COMPLETE (AEP, UK)			
*	A-4347-353-A	MAIN BOARD, COMPLETE (G, IT)			
		**********			
*	4-942-204-01	PLATE, GROUND			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C301	1-161-379-00	CERAMIC	0.01uF	20% 25V	(G, IT)
C302	1-124-477-11	ELECT	47uF	20% 25V	
C303	1-161-379-00	CERAMIC	0.01uF	20% 25V	
C305	1-161-379-00	CERAMIC	0.01uF	20% 25V	(G, IT)
C306	1-161-379-00	CERAMIC	0.01uF	20% 25V	(G, IT)
C307	1-161-379-00	CERAMIC	0.01uF	20% 25V	
C308	1-161-379-00	CERAMIC	0.01uF	20% 25V	
C309	1-161-379-00	CERAMIC	0.01uF	20% 25V	
C310	1-124-477-11	ELECT	47uF	20% 25V	
C311	1-161-379-00	CERAMIC	0.01uF	20% 25V	
C312	1-101-006-00	CERAMIC	0.047uF	50V	
C313	1-123-382-00	ELECT	3.3uF	20% 100V	
C314	1-161-379-00	CERAMIC	0.01uF	20% 25V	
C315	1-161-329-00	CERAMIC	0.0068uF	30% 16V	
C316	1-162-282-31	CERAMIC	100PF	10% 50V	
C317	1-162-292-31	CERAMIC	680PF	10% 50V	(G, IT)

MAIN

Ref. No.	Part No.	Description			Remark
C318	1-124-903-11	ELECT	1uF	20%	50V
C320	1-124-903-11	ELECT	1uF	20%	50V
C321	1-124-902-00	ELECT	0.47uF	20%	50V
C322	1-124-463-00	ELECT	0.1uF	20%	50V
C323	1-161-329-00	CERAMIC	0.0068uF	30%	16V
C324	1-161-329-00	CERAMIC	0.0068uF	30%	16V
C325	1-124-477-11	ELECT	47uF	20%	25V
C326	1-124-907-11	ELECT	10uF	20%	50V
C327	1-161-379-00	CERAMIC	0.01uF	20%	25V
C328	1-124-463-00	ELECT	0.1uF	20%	50V
C329	1-124-927-11	ELECT	4.7uF	20%	100V
C330	1-161-379-00	CERAMIC	0.01uF	20%	25V
C331	1-126-176-11	ELECT	220uF	20%	10V
C332	1-161-379-00	CERAMIC	0.01uF	20%	25V
C335	1-161-379-00	CERAMIC	0.01uF	20%	25V
C336	1-161-379-00	CERAMIC	0.01uF	20%	25V
C339	1-162-210-31	CERAMIC	30PF	5%	50V
C341	1-123-382-00	ELECT	3.3uF	20%	100V
C342	1-123-382-00	ELECT	3.3uF	20%	100V
C343	1-123-382-00	ELECT	3.3uF	20%	100V
C344	1-123-382-00	ELECT	3.3uF	20%	100V
C345	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C346	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C351	1-161-494-00	CERAMIC	0.022uF		25V
C352	1-102-120-00	CERAMIC	0.0018uF	10%	50V
C353	1-161-374-11	CERAMIC	0.0015uF	20%	50V
C354	1-161-494-00	CERAMIC	0.022uF		25V
C361	1-164-098-11	CERAMIC	0.047uF		12V
C362	1-161-494-00	CERAMIC	0.022uF		25V
C363	1-164-159-11	CERAMIC	0.1uF		50V
C364	1-161-494-00	CERAMIC	0.022uF		25V
C371	1-162-196-31	CERAMIC	5.6PF	10%	50V
C501	1-102-961-00	CERAMIC	27PF	5%	50V
C502	1-102-961-00	CERAMIC	27PF	5%	50V
C503	1-124-477-11	ELECT	47uF	20%	25V
C504	1-161-379-00	CERAMIC	0.01uF	20%	25V
C505	1-161-379-00	CERAMIC	0.01uF	20%	25V
C506	1-161-379-00	CERAMIC	0.01uF	20%	25V
C507	1-161-379-00	CERAMIC	0.01uF	20%	25V
C521	1-124-925-11	ELECT	2.2uF	20%	100V
C522	1-124-463-00	ELECT	0.1uF	20%	50V
C523	1-161-379-00	CERAMIC	0.01uF	20%	25V
C524	1-161-379-00	CERAMIC	0.01uF	20%	25V
C525	1-124-477-11	ELECT	47uF	20%	25V
C530	1-161-379-00	CERAMIC	0.01uF	20%	25V (G, IT)
C531	1-136-173-00	FILM	0.47uF	5%	50V
C532	1-161-494-00	CERAMIC	0.022uF		25V
C533	1-124-463-00	ELECT	0.1uF	20%	50V
C1001	1-124-925-11	ELECT	2.2uF	20%	100V

Ref. No.	Part No.	Description			Remark
C1002	1-162-282-31	CERAMIC	100PF	10%	50V
C1003	1-162-282-31	CERAMIC	100PF	10%	50V
C1004	1-124-477-11	ELECT	47uF	20%	25V
C1005	1-161-377-00	CERAMIC	0.0047uF	20%	16V
C1006	1-161-374-11	CERAMIC	0.0015uF	20%	50V
C1007	1-124-464-11	ELECT	0.22uF	20%	50V
C1008	1-124-477-11	ELECT	47uF	20%	25V
C1009	1-124-925-11	ELECT	2.2uF	20%	100V
C1010	1-124-477-11	ELECT	47uF	20%	25V
C1012	1-124-925-11	ELECT	2.2uF	20%	100V
C1013	1-162-290-31	CERAMIC	470PF	10%	50V
C1014	1-161-494-00	CERAMIC	0.022uF		25V
C1025	1-162-286-31	CERAMIC	220PF	10%	50V
C1026	1-162-286-31	CERAMIC	220PF	10%	50V
C1051	1-124-925-11	ELECT	2.2uF	20%	100V
C1052	1-162-282-31	CERAMIC	100PF	10%	50V
C1053	1-162-282-31	CERAMIC	100PF	10%	50V
C1054	1-124-477-11	ELECT	47uF	20%	25V
C1055	1-161-377-00	CERAMIC	0.0047uF	20%	16V
C1056	1-161-374-11	CERAMIC	0.0015uF	20%	50V
C1057	1-124-464-11	ELECT	0.22uF	20%	50V
C1058	1-124-477-11	ELECT	47uF	20%	25V
C1059	1-124-925-11	ELECT	2.2uF	20%	100V
C1060	1-124-477-11	ELECT	47uF	20%	25V
C1062	1-124-925-11	ELECT	2.2uF	20%	100V
C1063	1-162-290-31	CERAMIC	470PF	10%	50V
C1064	1-161-494-00	CERAMIC	0.022uF		25V
C1075	1-162-286-31	CERAMIC	220PF	10%	50V
C1076	1-162-286-31	CERAMIC	220PF	10%	50V
C1212	1-126-233-11	ELECT	22uF	20%	50V
C1213	1-126-233-11	ELECT	22uF	20%	50V
C1221	1-126-101-11	ELECT	100uF	20%	16V
C1222	1-126-176-11	ELECT	220uF	20%	10V
C1223	1-126-176-11	ELECT	220uF	20%	10V
C1245	1-101-006-00	CERAMIC	0.047uF	50V	(G, IT)
C1246	1-101-006-00	CERAMIC	0.047uF	50V	(G, IT)
C1247	1-101-006-00	CERAMIC	0.047uF	50V	(G, IT)
C1248	1-101-006-00	CERAMIC	0.047uF	50V	(G, IT)
C1249	1-161-494-00	CERAMIC	0.022uF	25V	(G, IT)
C1250	1-161-494-00	CERAMIC	0.022uF	25V	(G, IT)
C1262	1-126-233-11	ELECT	22uF	20%	50V
C1263	1-126-233-11	ELECT	22uF	20%	50V
C1294	1-161-494-00	CERAMIC	0.022uF	25V	(G, IT)
C1302	1-102-394-11	CERAMIC	0.01uF		250V
C1304	1-126-224-11	ELECT	4700uF	20%	42V
C1305	1-126-224-11	ELECT	4700uF	20%	42V
C1306	1-124-477-11	ELECT	47uF	20%	25V
C1308	1-126-101-11	ELECT	100uF	20%	16V

Ref. No.	Part No.	Description			Remark
C1309	1-126-101-11	ELECT	100uF	20%	16V
C1312	1-124-563-11	ELECT	2200uF	20%	25V
C1313	1-124-563-11	ELECT	2200uF	20%	25V
C1319	1-124-463-00	ELECT	0.1uF	20%	50V
C1320	1-124-907-11	ELECT	10uF	20%	50V
C1321	1-161-379-00	CERAMIC	0.01uF	20%	25V
C1322	1-161-379-00	CERAMIC	0.01uF	20%	25V
C1324	1-124-907-11	ELECT	10uF	20%	50V
C1326	1-124-907-11	ELECT	10uF	20%	50V
C1330	1-126-101-11	ELECT	100uF	20%	16V
C1331	1-102-394-11	CERAMIC	0.01uF		250V
C1335	1-124-907-11	ELECT	10uF	20%	50V
C1336	1-126-101-11	ELECT	100uF	20%	16V
C1341	1-124-907-11	ELECT	10uF	20%	50V
C1346	1-124-925-11	ELECT	2.2uF	20%	100V
C1351	1-124-122-11	ELECT	100uF	20%	50V
C1352	1-126-105-11	ELECT	1000uF	20%	35V
C1353	1-136-165-00	FILM	0.1uF	5%	50V
C1354	1-136-165-00	FILM	0.1uF	5%	50V
C1361	1-124-122-11	ELECT	100uF	20%	50V
		< FILTER >			
CF301	1-577-070-81	FILTER, CERAMIC (AEP, UK)			
CF301	1-567-389-11	FILTER, CERAMIC (G, IT)			
CF302	1-567-389-11	FILTER, CERAMIC (G, IT)			
CF303	1-577-070-81	FILTER, CERAMIC (AEP, UK)			
CF303	1-567-389-11	FILTER, CERAMIC (G, IT)			
CF304	1-577-075-11	OSCILLATOR, CERAMIC			
		< CONNECTOR >			
* CN501	1-568-830-11	SOCKET, CONNECTOR 11P			
* CN1001	1-580-912-11	JACK, PIN 4P			
* CN1002	1-580-691-11	JACK, PIN 2P			
* CN1201	1-537-327-11	TERMINAL BOARD			
* CN1202	1-569-130-11	JACK, PIN 2P			
* CN1203	1-564-506-11	PLUG, CONNECTOR 3P			
* CN1204	1-564-510-11	PLUG, CONNECTOR 7P			
* CN1205	1-568-934-11	PIN, CONNECTOR 7P			
CN1206	1-568-802-11	SOCKET, CONNECTOR 19P			
* CN1211	1-564-506-11	PLUG, CONNECTOR 3P			
* CN1212	1-564-508-11	PLUG, CONNECTOR 5P			
* CN1301	1-566-210-11	PIN, CONNECTOR 3P			
		< DIODE >			
D351	8-719-912-20	DIODE	1SS120		
D1202	8-719-912-20	DIODE	1SS120		
D1203	8-719-912-20	DIODE	1SS120		
D1204	8-719-912-20	DIODE	1SS120		

Ref. No.	Part No.	Description		Remark
D1302	8-719-312-09	DIODE	RBA-402	
D1303	8-719-200-82	DIODE	11ES2	
D1304	8-719-200-82	DIODE	11ES2	
D1305	8-719-200-82	DIODE	11ES2	
D1306	8-719-200-82	DIODE	11ES2	
D1318	8-719-200-82	DIODE	11ES2	
D1319	8-719-200-82	DIODE	11ES2	
D1321	8-719-912-20	DIODE	1SS120	
D1323	8-719-912-20	DIODE	1SS120	
D1324	8-719-912-20	DIODE	1SS120	
D1341	8-719-001-76	DIODE	UZL-12M3	
D1368	8-719-200-82	DIODE	11ES2	
D1369	8-719-200-82	DIODE	11ES2	
		< FRONT END >		
FE301	1-465-006-11	FRONT END (FM) (2 GANG) (AEP, UK)		
FE301	1-463-857-21	FRONT END (FM) (G, IT)		
FE351	1-236-463-11	ENCAPSULATED COMPONENT		
FE352	1-239-261-11	ENCAPSULATED COMPONENT		
		< IC >		
IC301	8-759-821-45	IC	LA1851N	
IC501	8-759-820-91	IC	LC7218	
IC1001	8-759-634-51	IC	M5218AP	
IC1002	8-759-000-48	IC	MC14052BCP	
IC1003	8-759-634-51	IC	M5218AP	
IC1004	8-759-000-49	IC	MC14066BCP	
IC1202	8-759-111-68	IC	uPC1237HA	
IC1303	8-759-604-86	IC	M5F7807L	
IC1304	8-759-604-90	IC	M5F7907L	
IC1305	8-759-820-13	IC	L78MR06	
IC1306	8-759-231-58	IC	TA7812S	
		< TRANSFORMER >		
IFT301	1-404-713-11	TRANSFORMER, IF		
		< COIL >		
L301	1-407-500-00	INDUCTOR	4.7mH	
L351	1-410-525-11	INDUCTOR	220uH	
L1301	1-408-117-00	INDUCTOR	10uH (G, IT)	
L1302	1-408-117-00	INDUCTOR	10uH (G, IT)	
		< FILTER >		
LPF301	1-235-164-00	FILTER, LOW PASS		
LPF301	1-235-164-31	FILTER, LOW PASS		
LPF302	1-235-164-00	FILTER, LOW PASS		
LPF302	1-235-164-31	FILTER, LOW PASS		

MAIN

Ref. No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q301	8-729-230-99	TRANSISTOR 2SC2669-OY (G, IT)	
Q302	8-729-230-99	TRANSISTOR 2SC2669-OY (G, IT)	
Q303	8-729-230-99	TRANSISTOR 2SC2669-OY	
Q304	8-729-230-99	TRANSISTOR 2SC2669-OY	
Q305	8-729-900-80	TRANSISTOR DTC114ES	
Q306	8-729-900-61	TRANSISTOR DTA114ES	
Q307	8-729-900-80	TRANSISTOR DTC114ES	
Q308	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q309	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q351	8-729-900-80	TRANSISTOR DTC114ES	
Q352	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q353	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q354	8-729-900-80	TRANSISTOR DTC114ES	
Q355	8-729-900-80	TRANSISTOR DTC114ES	
Q356	8-729-900-80	TRANSISTOR DTC114ES	
Q501	8-729-900-80	TRANSISTOR DTC114ES	
Q502	8-729-900-61	TRANSISTOR DTA114ES	
Q521	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q522	8-729-201-84	TRANSISTOR 2SC3112-B	
Q531	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q532	8-729-201-84	TRANSISTOR 2SC3112-B	
Q1001	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1002	8-729-900-36	TRANSISTOR DTC124ES	
Q1204	8-729-900-63	TRANSISTOR DTA124ES	
Q1302	8-729-209-15	TRANSISTOR 2SD2012	
		< RESISTOR >	
R301	1-249-401-11	CARBON 47 5% 1/4W	
R302	1-249-413-11	CARBON 470 5% 1/4W (AEP, UK)	
R302	1-249-405-11	CARBON 100 5% 1/4W (G, IT)	
R303	1-249-411-11	CARBON 330 5% 1/4W (G, IT)	
R304	1-249-432-11	CARBON 18K 5% 1/4W (G, IT)	
R305	1-249-411-11	CARBON 330 5% 1/4W (G, IT)	
R306	1-249-434-11	CARBON 27K 5% 1/4W (G, IT)	
R307	1-249-414-11	CARBON 560 5% 1/4W (G, IT)	
R308	1-249-411-11	CARBON 330 5% 1/4W	
R309	1-249-432-11	CARBON 18K 5% 1/4W	
R310	1-249-411-11	CARBON 330 5% 1/4W	
R311	1-249-434-11	CARBON 27K 5% 1/4W	
R312	1-249-414-11	CARBON 560 5% 1/4W	
R313	1-249-405-11	CARBON 100 5% 1/4W	
R314	1-249-437-11	CARBON 47K 5% 1/4W (G, IT)	
R315	1-249-404-00	CARBON 82 5% 1/4W	
R315	1-249-435-11	CARBON 33K 5% 1/4W (G, IT)	
R316	1-249-429-11	CARBON 10K 5% 1/4W	
R317	1-249-417-11	CARBON 1K 5% 1/4W	
R318	1-249-435-11	CARBON 33K 5% 1/4W	
R319	1-249-428-11	CARBON 8.2K 5% 1/4W	
R320	1-249-432-11	CARBON 18K 5% 1/4W	
R321	1-249-423-11	CARBON 3.3K 5% 1/4W	
R322	1-249-429-11	CARBON 10K 5% 1/4W	
R323	1-249-418-11	CARBON 1.2K 5% 1/4W (AEP, UK)	
R323	1-249-414-11	CARBON 560 5% 1/4W (G, IT)	
R323	1-249-417-11	CARBON 1K 5% 1/4W (G, IT)	
R324	1-249-429-11	CARBON 10K 5% 1/4W	
R325	1-249-429-11	CARBON 10K 5% 1/4W	
R326	1-249-409-11	CARBON 220 5% 1/4W	
R327	1-249-437-11	CARBON 47K 5% 1/4W	
R328	1-249-437-11	CARBON 47K 5% 1/4W	
R331	1-247-891-00	CARBON 330K 5% 1/4W	
R332	1-247-891-00	CARBON 330K 5% 1/4W	
R333	1-249-421-11	CARBON 2.2K 5% 1/4W	
R334	1-249-421-11	CARBON 2.2K 5% 1/4W	
R335	1-249-420-11	CARBON 1.8K 5% 1/4W	
R336	1-249-420-11	CARBON 1.8K 5% 1/4W	
R337	1-249-426-11	CARBON 5.6K 5% 1/4W	
R338	1-249-426-11	CARBON 5.6K 5% 1/4W	
R351	1-249-433-11	CARBON 22K 5% 1/4W	
R352	1-249-437-11	CARBON 47K 5% 1/4W	
R353	1-247-903-00	CARBON 1M 5% 1/4W	
R354	1-249-441-11	CARBON 100K 5% 1/4W	
R355	1-249-433-11	CARBON 22K 5% 1/4W	
R356	1-249-421-11	CARBON 2.2K 5% 1/4W	
R361	1-249-437-11	CARBON 47K 5% 1/4W	
R362	1-249-437-11	CARBON 47K 5% 1/4W	
R363	1-249-425-11	CARBON 4.7K 5% 1/4W	
R364	1-249-425-11	CARBON 4.7K 5% 1/4W	
R365	1-249-429-11	CARBON 10K 5% 1/4W	
R366	1-249-413-11	CARBON 470 5% 1/4W	
R367	1-249-434-11	CARBON 27K 5% 1/4W	
R368	1-249-433-11	CARBON 22K 5% 1/4W	
R501	1-249-417-11	CARBON 1K 5% 1/4W	
R502	1-249-417-11	CARBON 1K 5% 1/4W	
R503	1-249-417-11	CARBON 1K 5% 1/4W	
R504	1-249-417-11	CARBON 1K 5% 1/4W	
R505	1-249-429-11	CARBON 10K 5% 1/4W	
R506	1-249-417-11	CARBON 1K 5% 1/4W	
R510	1-249-401-11	CARBON 47 5% 1/4W	
R511	1-249-429-11	CARBON 10K 5% 1/4W	
R512	1-249-425-11	CARBON 4.7K 5% 1/4W	
R513	1-249-417-11	CARBON 1K 5% 1/4W	
R514	1-249-429-11	CARBON 10K 5% 1/4W	
R515	1-249-417-11	CARBON 1K 5% 1/4W	
R521	1-249-423-11	CARBON 3.3K 5% 1/4W	
R522	1-249-425-11	CARBON 4.7K 5% 1/4W	
R523	1-249-414-11	CARBON 560 5% 1/4W (AEP, UK)	

Ref. No.	Part No.	Description				Remark
R524	1-249-417-11	CARBON	1K	5%	1/4W	
R525	1-249-410-11	CARBON	270	5%	1/4W	
R526	1-249-421-11	CARBON	2.2K	5%	1/4W	
R527	1-249-425-11	CARBON	4.7K	5%	1/4W	
R528	1-249-425-11	CARBON	4.7K	5%	1/4W	
R529	1-249-405-11	CARBON	100	5%	1/4W	
R530	1-249-405-11	CARBON	100	5%	1/4W	
R531	1-249-423-11	CARBON	3.3K	5%	1/4W	
R532	1-249-433-11	CARBON	22K	5%	1/4W	
R533	1-249-414-11	CARBON	560	5%	1/4W	
R534	1-249-417-11	CARBON	1K	5%	1/4W	
R535	1-249-410-11	CARBON	270	5%	1/4W	
R536	1-249-421-11	CARBON	2.2K	5%	1/4W	
R537	1-249-425-11	CARBON	4.7K	5%	1/4W	
R538	1-249-405-11	CARBON	100	5%	1/4W	
R1001	1-249-417-11	CARBON	1K	5%	1/4W	
R1002	1-249-441-11	CARBON	100K	5%	1/4W	
R1003	1-249-416-11	CARBON	820	5%	1/4W	
R1004	1-247-897-11	CARBON	560K	5%	1/4W	
R1005	1-249-437-11	CARBON	47K	5%	1/4W	
R1006	1-249-409-11	CARBON	220	5%	1/4W	
R1007	1-249-441-11	CARBON	100K	5%	1/4W	
R1008	1-249-409-11	CARBON	220	5%	1/4W	
R1010	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1011	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1012	1-249-417-11	CARBON	1K	5%	1/4W	
R1013	1-249-441-11	CARBON	100K	5%	1/4W	
R1014	1-249-437-11	CARBON	47K	5%	1/4W	
R1015	1-249-437-11	CARBON	47K	5%	1/4W	
R1016	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1017	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1018	1-249-433-11	CARBON	22K	5%	1/4W	
R1019	1-249-433-11	CARBON	22K	5%	1/4W	
R1021	1-249-434-11	CARBON	27K	5%	1/4W	
R1023	1-249-434-11	CARBON	27K	5%	1/4W	
R1024	1-249-417-11	CARBON	1K	5%	1/4W	
R1026	1-249-433-11	CARBON	22K	5%	1/4W	
R1029	1-249-433-11	CARBON	22K	5%	1/4W	
R1037	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1051	1-249-417-11	CARBON	1K	5%	1/4W	
R1052	1-249-441-11	CARBON	100K	5%	1/4W	
R1053	1-249-416-11	CARBON	820	5%	1/4W	
R1054	1-247-897-11	CARBON	560K	5%	1/4W	
R1055	1-249-437-11	CARBON	47K	5%	1/4W	
R1056	1-249-409-11	CARBON	220	5%	1/4W	
R1057	1-249-441-11	CARBON	100K	5%	1/4W	
R1058	1-249-409-11	CARBON	220	5%	1/4W	
R1060	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1061	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1062	1-249-417-11	CARBON	1K	5%	1/4W	
R1063	1-249-441-11	CARBON	100K	5%	1/4W	
R1071	1-249-434-11	CARBON	27K	5%	1/4W	
R1073	1-249-434-11	CARBON	27K	5%	1/4W	
R1074	1-249-417-11	CARBON	1K	5%	1/4W	
R1095	1-249-433-11	CARBON	22K	5%	1/4W	
R1222	1-249-415-11	CARBON	680	5%	1/4W	
R1223	1-249-415-11	CARBON	680	5%	1/4W	
⚠R1226	1-215-890-11	METAL OXIDE	470	5%	2W	F
R1233	1-249-433-11	CARBON	22K	5%	1/4W	
R1234	1-249-433-11	CARBON	22K	5%	1/4W	
R1235	1-249-435-11	CARBON	33K	5%	1/4W	
R1236	1-249-441-11	CARBON	100K	5%	1/4W	
R1237	1-249-429-11	CARBON	10K	5%	1/4W	
R1240	1-249-438-11	CARBON	56K	5%	1/4W	
R1241	1-249-385-11	CARBON	2.2	5%	1/6W	(G, IT)
R1242	1-249-385-11	CARBON	2.2	5%	1/6W	(G, IT)
R1243	1-249-385-11	CARBON	2.2	5%	1/6W	(G, IT)
R1244	1-249-385-11	CARBON	2.2	5%	1/6W	(G, IT)
R1272	1-249-415-11	CARBON	680	5%	1/4W	
R1273	1-249-415-11	CARBON	680	5%	1/4W	
R1290	1-249-437-11	CARBON	47K	5%	1/4W	
R1301	1-249-429-11	CARBON	10K	5%	1/4W	
R1302	1-249-429-11	CARBON	10K	5%	1/4W	
R1321	1-249-417-11	CARBON	1K	5%	1/4W	
R1322	1-249-429-11	CARBON	10K	5%	1/4W	
R1345	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1346	1-249-425-11	CARBON	4.7K	5%	1/4W	

< VARIABLE RESISTOR >

RV301	1-238-601-11	RES, ADJ, CARBON 22K
RV302	1-238-601-11	RES, ADJ, CARBON 22K

< RELAY >

RY1201	1-515-533-11	RELAY

< TRANSFORMER >

T301	1-404-807-11	TRANSFORMER, DISCRIMINATOR
T302	1-235-126-00	ENCAPSULATED COMPONENT (G, IT)

< TERMINAL >

* TM301	1-537-288-11	TERMINAL BOARD (PAL)

< TEST PIN >

* TP1	1-560-060-00	PIN, CONNECTOR 2P

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN PANEL

Ref. No.	Part No.	Description			Remark
		< CRYSTAL >			
XT501	1-577-126-11	VIBRATOR, CRYSTAL			
XT501	1-579-383-11	VIBRATOR, CRYSTAL			
**********					
*	A-4345-979-A	PANEL BOARD, COMPLETE (AEP, UK, G)			
*	A-4347-358-A	PANEL BOARD, COMPLETE (IT)			
		**********			
*	1-564-321-00	PIN, CONNECTOR 2P			
*	4-930-781-11	HOLDER (VO), LED			
	4-942-301-11	HOLDER, FL TUBE			
*	4-948-247-01	HOLDER (FU), LED			
*	4-949-935-01	CUSHION (FL)			
		< CAPACITOR >			
C603	1-136-169-00	FILM	0.22uF	5%	50V
C604	1-164-159-11	CERAMIC	0.1uF		50V
C605	1-125-486-11	DOUBLE LAYERS	0.22F		5.5V
C606	1-164-159-11	CERAMIC	0.1uF		50V
C607	1-124-907-11	ELECT	10uF	20%	50V
C608	1-161-379-00	CERAMIC	0.01uF	20%	25V
C609	1-161-379-00	CERAMIC	0.01uF	20%	25V
C650	1-124-907-11	ELECT	10uF	20%	50V
C1101	1-124-257-00	ELECT	2.2uF	20%	50V
C1102	1-124-589-11	ELECT	47uF	20%	16V
C1103	1-162-282-31	CERAMIC	100PF	10%	50V
C1104	1-124-257-00	ELECT	2.2uF	20%	50V
C1105	1-124-464-11	ELECT	0.22uF	20%	50V
C1106	1-136-161-00	FILM	0.047uF	5%	50V
C1107	1-136-155-00	FILM	0.015uF	5%	50V
C1108	1-136-155-00	FILM	0.015uF	5%	50V
C1109	1-130-480-00	MYLAR	0.0056uF	5%	50V
C1110	1-161-327-00	CERAMIC	0.0033uF	20%	16V
C1111	1-136-155-00	FILM	0.015uF	5%	50V
C1112	1-136-157-00	FILM	0.022uF	5%	50V
C1113	1-136-153-00	FILM	0.01uF	5%	50V
C1114	1-161-377-00	CERAMIC	0.0047uF	20%	16V
C1115	1-124-257-00	ELECT	2.2uF	20%	50V
C1121	1-161-379-00	CERAMIC	0.01uF	20%	25V
C1123	1-162-286-31	CERAMIC	220PF	10%	50V
C1131	1-162-215-31	CERAMIC	47PF	5%	50V
C1132	1-162-215-31	CERAMIC	47PF	5%	50V
C1151	1-124-257-00	ELECT	2.2uF	20%	50V
C1152	1-124-589-11	ELECT	47uF	20%	16V
C1153	1-162-282-31	CERAMIC	100PF	10%	50V
C1154	1-124-257-00	ELECT	2.2uF	20%	50V
C1155	1-124-464-11	ELECT	0.22uF	20%	50V
C1156	1-136-161-00	FILM	0.047uF	5%	50V
C1157	1-136-155-00	FILM	0.015uF	5%	50V
C1158	1-136-155-00	FILM	0.015uF	5%	50V
C1159	1-130-480-00	MYLAR	0.0056uF	5%	50V
C1160	1-161-327-00	CERAMIC	0.0033uF	20%	16V
C1161	1-136-155-00	FILM	0.015uF	5%	50V
C1162	1-136-157-00	FILM	0.022uF	5%	50V
C1163	1-136-153-00	FILM	0.01uF	5%	50V
C1164	1-161-377-00	CERAMIC	0.0047uF	20%	16V
C1165	1-124-257-00	ELECT	2.2uF	20%	50V
C1173	1-162-286-31	CERAMIC	220PF	10%	50V
C1181	1-162-215-31	CERAMIC	47PF	5%	50V
C1182	1-162-215-31	CERAMIC	47PF	5%	50V
C1198	1-161-379-00	CERAMIC	0.01uF	20%	25V
		< CONNECTOR >			
* CN601	1-568-830-11	SOCKET, CONNECTOR 11P			
CN1101	1-568-802-11	SOCKET, CONNECTOR 19P			
		< DIODE >			
D601	8-719-912-20	DIODE	1SS120		
D602	8-719-010-26	DIODE	UZ-3.9BSB		
D603	8-719-912-20	DIODE	1SS120		
D604	8-719-912-20	DIODE	1SS120		
D611	8-719-912-20	DIODE	1SS120		
D612	8-719-912-20	DIODE	1SS120		
D613	8-719-912-20	DIODE	1SS120		
D614	8-719-912-20	DIODE	1SS120		
D618	8-719-912-20	DIODE	1SS120		
D621	8-719-912-20	DIODE	1SS120 (IT)		
D625	8-719-912-20	DIODE	1SS120		
D641	8-719-200-82	DIODE	11ES2		
D1130	8-719-302-45	LED	SEL1210S (VIDEO)		
D1131	8-719-302-45	LED	SEL1210S (CD)		
D1132	8-719-302-45	LED	SEL1210S (PHONO)		
D1133	8-719-302-45	LED	SEL1210S (TUNER)		
D1134	8-719-302-45	LED	SEL1210S (TAPE)		
D1145	8-719-301-39	LED	SEL2210S-D (VOLUME)		
D1151	8-719-912-20	DIODE	1SS120		
D1152	8-719-912-20	DIODE	1SS120		
D1153	8-719-912-20	DIODE	1SS120		
		< FILTER >			
FL601	1-519-732-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC601	8-759-053-97	IC	uPD75212ACW-A2		
IC602	8-749-920-83	IC	GP1U52XB		
IC1101	8-759-634-51	IC	M5218AP		

PANEL

Ref. No.	Part No.	Description				Remark
IC1102	8-759-634-51	IC	M5218AP			
IC1103	8-759-820-62	IC	LB1639			
IC1104	8-759-916-12	IC	SN74HC00AN			
		< COIL >				
L601	1-410-521-11	INDUCTOR	100uH			
		< TRANSISTOR >				
Q601	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q602	8-729-900-80	TRANSISTOR	DTC114ES			
Q1101	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q1102	8-729-141-26	TRANSISTOR	2SC3622A-LK			
Q1121	8-729-900-36	TRANSISTOR	DTC124ES			
Q1122	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q1136	8-729-900-36	TRANSISTOR	DTC124ES			
Q1138	8-729-900-36	TRANSISTOR	DTC124ES			
Q1141	8-729-900-63	TRANSISTOR	DTA124ES			
Q1143	8-729-900-80	TRANSISTOR	DTC114ES			
Q1144	8-729-900-80	TRANSISTOR	DTC114ES			
Q1145	8-729-900-61	TRANSISTOR	DTA114ES			
Q1151	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q1152	8-729-141-26	TRANSISTOR	2SC3622A-LK			
		< RESISTOR >				
R601	1-249-429-11	CARBON	10K	5%	1/4W	
R602	1-249-429-11	CARBON	10K	5%	1/4W	
R603	1-249-423-11	CARBON	3.3K	5%	1/4W	
R604	1-249-437-11	CARBON	47K	5%	1/4W	
R605	1-249-433-11	CARBON	22K	5%	1/4W	
R606	1-249-433-11	CARBON	22K	5%	1/4W	
R607	1-249-439-11	CARBON	68K	5%	1/4W	
R608	1-249-417-11	CARBON	1K	5%	1/4W	
R609	1-249-405-11	CARBON	100	5%	1/4W	
R610	1-249-429-11	CARBON	10K	5%	1/4W	
R611	1-249-437-11	CARBON	47K	5%	1/4W	
R612	1-249-417-11	CARBON	1K	5%	1/4W	
R621	1-249-433-11	CARBON	22K	5%	1/4W	
R622	1-249-433-11	CARBON	22K	5%	1/4W	
R623	1-249-433-11	CARBON	22K	5%	1/4W	
R624	1-249-433-11	CARBON	22K	5%	1/4W	
R641	1-249-417-11	CARBON	1K	5%	1/4W	
R1101	1-249-441-11	CARBON	100K	5%	1/4W	
R1102	1-249-417-11	CARBON	1K	5%	1/4W	
R1103	1-249-431-11	CARBON	15K	5%	1/4W	
R1104	1-249-441-11	CARBON	100K	5%	1/4W	
R1105	1-249-433-11	CARBON	22K	5%	1/4W	
R1106	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1107	1-249-441-11	CARBON	100K	5%	1/4W	
R1108	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1109	1-249-412-11	CARBON	390	5%	1/4W	
R1110	1-249-431-11	CARBON	15K	5%	1/4W	
R1111	1-249-439-11	CARBON	68K	5%	1/4W	
R1112	1-249-433-11	CARBON	22K	5%	1/4W	
R1113	1-249-431-11	CARBON	15K	5%	1/4W	
R1114	1-249-429-11	CARBON	10K	5%	1/4W	
R1115	1-249-429-11	CARBON	10K	5%	1/4W	
R1116	1-247-852-11	CARBON	7.5K	5%	1/4W	
R1117	1-247-852-11	CARBON	7.5K	5%	1/4W	
R1118	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1119	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1120	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1121	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1122	1-247-887-00	CARBON	220K	5%	1/4W	
R1123	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1124	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1125	1-249-433-11	CARBON	22K	5%	1/4W	
R1130	1-249-412-11	CARBON	390	5%	1/4W	
R1132	1-249-412-11	CARBON	390	5%	1/4W	
R1133	1-249-412-11	CARBON	390	5%	1/4W	
R1135	1-249-433-11	CARBON	22K	5%	1/4W	
R1143	1-249-433-11	CARBON	22K	5%	1/4W	
R1145	1-249-412-11	CARBON	390	5%	1/4W	
R1149	1-249-429-11	CARBON	10K	5%	1/4W	
R1151	1-249-441-11	CARBON	100K	5%	1/4W	
R1152	1-249-417-11	CARBON	1K	5%	1/4W	
R1154	1-249-441-11	CARBON	100K	5%	1/4W	
R1155	1-249-433-11	CARBON	22K	5%	1/4W	
R1156	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1157	1-249-441-11	CARBON	100K	5%	1/4W	
R1158	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1159	1-249-412-11	CARBON	390	5%	1/4W	
R1160	1-249-431-11	CARBON	15K	5%	1/4W	
R1161	1-249-439-11	CARBON	68K	5%	1/4W	
R1162	1-249-433-11	CARBON	22K	5%	1/4W	
R1163	1-249-431-11	CARBON	15K	5%	1/4W	
R1164	1-249-429-11	CARBON	10K	5%	1/4W	
R1165	1-249-429-11	CARBON	10K	5%	1/4W	
R1166	1-247-852-11	CARBON	7.5K	5%	1/4W	
R1167	1-247-852-11	CARBON	7.5K	5%	1/4W	
R1168	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1169	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1170	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1171	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1172	1-247-887-00	CARBON	220K	5%	1/4W	
R1173	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1174	1-249-425-11	CARBON	4.7K	5%	1/4W	

PANEL POWER AMP

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV1101	1-241-353-11	RES, VAR, CARBON 100K/100K (SURROUND)	
RV1102	1-241-353-11	RES, VAR, CARBON 100K/100K (DBFB)	
RV1103	1-241-356-11	RES, VAR, SLIDE 100K (100Hz, LEFT)	
RV1104	1-241-356-11	RES, VAR, SLIDE 100K (330Hz, LEFT)	
RV1105	1-241-356-11	RES, VAR, SLIDE 100K (1KHz, LEFT)	
RV1106	1-241-356-11	RES, VAR, SLIDE 100K (3.3KHz, LEFT)	
RV1107	1-241-356-11	RES, VAR, SLIDE 100K (10KHz, LEFT)	
RV1108	1-241-352-11	RES, VAR, CARBON 100K/100K (BALANCE)	
RV1153	1-241-356-11	RES, VAR, SLIDE 100K (100Hz, RIGHT)	
RV1154	1-241-356-11	RES, VAR, SLIDE 100K (330Hz, RIGHT)	
RV1155	1-241-356-11	RES, VAR, SLIDE 100K (1KHz, RIGHT)	
RV1156	1-241-356-11	RES, VAR, SLIDE 100K (3.3KHz, RIGHT)	
RV1157	1-241-356-11	RES, VAR, SLIDE 100K (10KHz, RIGHT)	
		< SWITCH >	
S601	1-554-303-21	SWITCH, TACTILE (1)	
S602	1-554-303-21	SWITCH, TACTILE (2)	
S603	1-554-303-21	SWITCH, TACTILE (3)	
S604	1-554-303-21	SWITCH, TACTILE (4)	
S605	1-554-303-21	SWITCH, TACTILE (5)	
S606	1-554-303-21	SWITCH, TACTILE (6)	
S607	1-554-303-21	SWITCH, TACTILE (7)	
S608	1-554-303-21	SWITCH, TACTILE (8)	
S609	1-554-303-21	SWITCH, TACTILE (9)	
S610	1-554-303-21	SWITCH, TACTILE (0)	
S611	1-554-303-21	SWITCH, TACTILE (SHIFT)	
S612	1-554-303-21	SWITCH, TACTILE (BAND SELECT)	
S613	1-554-303-21	SWITCH, TACTILE (ST/MUTE)	
S614	1-554-303-21	SWITCH, TACTILE (DUAL MODE TUNING +)	
S615	1-554-303-21	SWITCH, TACTILE (DUAL MODE TUNING -)	
S619	1-554-303-21	SWITCH, TACTILE (MEMORY)	
S636	1-554-303-21	SWITCH, TACTILE (TAPE)	
S637	1-554-303-21	SWITCH, TACTILE (CD)	
S638	1-554-303-21	SWITCH, TACTILE (TUNER)	
S639	1-554-303-21	SWITCH, TACTILE (PHONO)	
S640	1-554-303-21	SWITCH, TACTILE (VIDEO)	
S1102	1-554-118-00	SWITCH, PUSH (1 KEY) (EQUALIZER)	
		< CRYSTAL >	
X601	1-567-775-11	VIBRATOR, CERAMIC	
**********			
*	A-4345-986-A	POWER AMP BOARD, COMPLETE (AEP, UK)	
*	A-4347-357-A	POWER AMP BOARD, COMPLETE (G, IT)	
		**********	

Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
C1201	1-124-257-00	ELECT	2.2uF	20% 50V	
C1202	1-162-286-31	CERAMIC	220PF	10% 50V	
C1203	1-162-286-31	CERAMIC	220PF	10% 50V	
C1204	1-124-477-11	ELECT	47uF	20% 25V	
C1205	1-124-910-11	ELECT	47uF	20% 50V	
C1206	1-124-122-11	ELECT	100uF	20% 50V	
C1207	1-136-165-00	FILM	0.1uF	5% 50V	
C1208	1-126-233-11	ELECT	22uF	20% 50V	
C1209	1-136-165-00	FILM	0.1uF	5% 50V	
C1210	1-136-163-00	FILM	0.068uF	5% 50V	
C1211	1-136-163-00	FILM	0.068uF	5% 50V	
C1220	1-124-910-11	ELECT	47uF	20% 50V	
C1230	1-161-494-00	CERAMIC	0.022uF	25V	(G, IT)
C1231	1-161-494-00	CERAMIC	0.022uF	25V	(G, IT)
C1232	1-161-494-00	CERAMIC	0.022uF	25V	(G, IT)
C1233	1-161-494-00	CERAMIC	0.022uF	25V	(G, IT)
C1251	1-124-257-00	ELECT	2.2uF	20% 50V	
C1252	1-162-286-31	CERAMIC	220PF	10% 50V	
C1253	1-162-286-31	CERAMIC	220PF	10% 50V	
C1254	1-124-477-11	ELECT	47uF	20% 25V	
C1255	1-124-910-11	ELECT	47uF	20% 50V	
C1256	1-124-122-11	ELECT	100uF	20% 50V	
C1257	1-136-165-00	FILM	0.1uF	5% 50V	
C1260	1-136-163-00	FILM	0.068uF	5% 50V	
C1261	1-136-163-00	FILM	0.068uF	5% 50V	
C1280	1-161-494-00	CERAMIC	0.022uF	25V	(G, IT)
		< DIODE >			
D1201	8-719-912-20	DIODE 1SS120			
D1251	8-719-912-20	DIODE 1SS120			
		< IC >			
IC1201	8-749-900-96	IC STK4142MK2			
		< COIL >			
L1201	1-420-872-00	COIL, AIR CORE			
L1251	1-420-872-00	COIL, AIR CORE			
		< TRANSISTOR >			
Q1201	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q1202	8-729-900-80	TRANSISTOR DTC114ES			
Q1203	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q1251	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
		< RESISTOR >			
R1201	1-249-417-11	CARBON	1K	5% 1/4W	

POWER AMP | POWER | SW

Ref. No.	Part No.	Description			Remark
R1202	1-249-438-11	CARBON	56K	5%	1/4W
R1203	1-249-417-11	CARBON	1K	5%	1/4W
R1204	1-249-438-11	CARBON	56K	5%	1/4W
R1205	1-249-425-11	CARBON	4.7K	5%	1/4W
R1206	1-249-425-11	CARBON	4.7K	5%	1/4W
R1207	1-249-425-11	CARBON	4.7K	5%	1/4W
R1208	1-249-425-11	CARBON	4.7K	5%	1/4W
⚠R1209	1-212-881-11	FUSIBLE	100	5%	1/4W F
⚠R1210	1-217-151-00	RES, METAL PLATE			0.22
R1211	1-249-417-11	CARBON	1K	5%	1/4W
R1212	1-249-431-11	CARBON	15K	5%	1/4W
R1213	1-249-441-11	CARBON	100K	5%	1/4W
R1214	1-249-421-11	CARBON	2.2K	5%	1/4W
R1215	1-249-421-11	CARBON	2.2K	5%	1/4W
R1216	1-249-421-11	CARBON	2.2K	5%	1/4W
R1217	1-249-421-11	CARBON	2.2K	5%	1/4W
R1218	1-249-397-11	CARBON	22	5%	1/4W
R1219	1-249-397-11	CARBON	22	5%	1/4W
R1220	1-249-397-11	CARBON	22	5%	1/4W
R1221	1-249-397-11	CARBON	22	5%	1/4W
R1227	1-249-429-11	CARBON	10K	5%	1/4W
R1228	1-247-881-00	CARBON	120K	5%	1/4W
R1229	1-249-439-11	CARBON	68K	5%	1/4W
R1230	1-249-439-11	CARBON	68K	5%	1/4W
R1231	1-249-417-11	CARBON	1K	5%	1/4W
R1232	1-249-428-11	CARBON	8.2K	5%	1/4W
R1238	1-249-433-11	CARBON	22K	5%	1/4W
R1239	1-249-426-11	CARBON	5.6K	5%	1/4W
R1251	1-249-417-11	CARBON	1K	5%	1/4W
R1252	1-249-438-11	CARBON	56K	5%	1/4W
R1253	1-249-417-11	CARBON	1K	5%	1/4W
R1254	1-249-438-11	CARBON	56K	5%	1/4W
R1255	1-249-425-11	CARBON	4.7K	5%	1/4W
R1256	1-249-425-11	CARBON	4.7K	5%	1/4W
R1257	1-249-425-11	CARBON	4.7K	5%	1/4W
R1258	1-249-425-11	CARBON	4.7K	5%	1/4W
⚠R1259	1-212-881-11	FUSIBLE	100	5%	1/4W F
⚠R1260	1-217-151-00	RES, METAL PLATE			0.22
R1261	1-249-417-11	CARBON	1K	5%	1/4W
R1262	1-249-431-11	CARBON	15K	5%	1/4W
R1263	1-249-441-11	CARBON	100K	5%	1/4W
R1268	1-249-397-11	CARBON	22	5%	1/4W
R1269	1-249-397-11	CARBON	22	5%	1/4W
R1270	1-249-397-11	CARBON	22	5%	1/4W
R1271	1-249-397-11	CARBON	22	5%	1/4W

****

* 1-642-135-11 POWER BOARD
****

Ref. No.	Part No.	Description			Remark
	1-533-217-31	HOLDER, FUSE			
		< CAPACITOR >			
C1301	1-161-744-00	CERAMIC	0.01uF		400V
C1314	1-124-122-11	ELECT	100uF	20%	50V
C1315	1-124-927-11	ELECT	4.7uF	20%	100V
C1316	1-124-910-11	ELECT	47uF	20%	50V
		< CONNECTOR >			
* CN1301	1-564-509-11	PLUG, CONNECTOR 6P			
CN1302	1-506-469-11	CONNECTOR	4P, MALE		
* CN1350	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P			
		< DIODE >			
D1307	8-719-002-60	DIODE	UZL-33L		
D1309	8-719-014-66	DIODE	UZP-5.6B		
D1311	8-719-200-82	DIODE	11ES2		
		< TRANSISTOR >			
Q1301	8-729-141-83	TRANSISTOR	2SB1094-LK		
		< RESISTOR >			
R1303	1-249-421-11	CARBON	2.2K	5%	1/4W
R1304	1-249-425-11	CARBON	4.7K	5%	1/4W

****

* 1-642-136-11 SW BOARD
****

		< CAPACITOR >			
C701	1-124-903-11	ELECT	1uF	20%	50V
		< CONNECTOR >			
* CNJ701	1-568-834-11	SOCKET, CONNECTOR 15P			
		< TRANSISTOR >			
Q701	8-729-900-89	TRANSISTOR	DTC144ES		
Q702	8-729-900-89	TRANSISTOR	DTC144ES		
Q703	8-729-900-89	TRANSISTOR	DTC144ES		
		< RESISTOR >			
R701	1-249-417-11	CARBON	1K	5%	1/4W
R702	1-249-437-11	CARBON	47K	5%	1/4W
R703	1-249-424-11	CARBON	3.9K	5%	1/4W
R704	1-249-427-11	CARBON	6.8K	5%	1/4W
R705	1-249-421-11	CARBON	2.2K	5%	1/4W
R706	1-249-416-11	CARBON	820	5%	1/4W
R707	1-249-423-11	CARBON	3.3K	5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

SW TC MAIN

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
S701	1-572-994-11	SWITCH, PUSH (3 KEY) (TAPE SELECT/DUBBING SPEED/DOLBY NR)			
**********					
*	A-4345-901-A	TC MAIN BOARD, COMPLETE **********			
	1-535-995-11	JUMPER, FILM (WITH TERMINAL)			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C400	1-162-289-31	CERAMIC	390PF	10%	50V
C401	1-136-157-00	FILM	0.022uF	5%	50V
C402	1-124-767-00	ELECT	2.2uF	20%	50V
C403	1-124-443-00	ELECT	100uF	20%	10V
C404	1-162-289-31	CERAMIC	390PF	10%	50V
C405	1-136-157-00	FILM	0.022uF	5%	50V
C406	1-124-767-00	ELECT	2.2uF	20%	50V
C407	1-124-443-00	ELECT	100uF	20%	10V
C408	1-130-479-00	MYLAR	0.0047uF	5%	50V
C409	1-162-289-31	CERAMIC	390PF	10%	50V
C410	1-124-903-11	ELECT	1uF	20%	50V
C411	1-124-925-11	ELECT	2.2uF	20%	100V
C413	1-124-472-11	ELECT	470uF	20%	10V
C414	1-131-587-11	TANTALUM	0.68uF	5%	35V
C415	1-124-257-00	ELECT	2.2uF	20%	50V
C416	1-124-927-11	ELECT	4.7uF	20%	100V
C417	1-124-465-00	ELECT	0.47uF	20%	50V
C418	1-124-907-11	ELECT	10uF	20%	50V
C419	1-124-907-11	ELECT	10uF	20%	50V
C420	1-124-907-11	ELECT	10uF	20%	50V
C421	1-162-284-31	CERAMIC	150PF	10%	50V
C422	1-136-273-91	FILM	75PF	5%	630V
C423	1-136-271-00	FILM	56PF	5%	630V
C424	1-162-280-31	CERAMIC	82PF	10%	50V
C441	1-162-282-31	CERAMIC	100PF	10%	50V
C442	1-164-159-11	CERAMIC	0.1uF		50V
C443	1-124-903-11	ELECT	1uF	20%	50V
C446	1-162-282-31	CERAMIC	100PF	10%	50V
C500	1-162-289-31	CERAMIC	390PF	10%	50V
C501	1-136-157-00	FILM	0.022uF	5%	50V
C502	1-124-767-00	ELECT	2.2uF	20%	50V
C503	1-124-443-00	ELECT	100uF	20%	10V
C504	1-162-289-31	CERAMIC	390PF	10%	50V
C505	1-136-157-00	FILM	0.022uF	5%	50V
C506	1-124-767-00	ELECT	2.2uF	20%	50V
C507	1-124-443-00	ELECT	100uF	20%	10V
C508	1-130-479-00	MYLAR	0.0047uF	5%	50V
C509	1-162-289-31	CERAMIC	390PF	10%	50V
C511	1-124-925-11	ELECT	2.2uF	20%	100V
C513	1-124-472-11	ELECT	470uF	20%	10V
C514	1-131-587-11	TANTALUM	0.68uF	5%	35V
C515	1-124-257-00	ELECT	2.2uF	20%	50V
C516	1-124-927-11	ELECT	4.7uF	20%	100V
C517	1-124-465-00	ELECT	0.47uF	20%	50V
C518	1-124-907-11	ELECT	10uF	20%	50V
C520	1-124-907-11	ELECT	10uF	20%	50V
C521	1-162-284-31	CERAMIC	150PF	10%	50V
C522	1-136-273-91	FILM	75PF	5%	630V
C523	1-136-271-00	FILM	56PF	5%	630V
C524	1-162-280-31	CERAMIC	82PF	10%	50V
C525	1-136-562-11	FILM	0.0082uF	5%	630V
C526	1-130-482-00	MYLAR	0.0082uF	5%	50V
C527	1-124-925-11	ELECT	2.2uF	20%	100V
C528	1-130-482-00	MYLAR	0.0082uF	5%	50V
C529	1-130-478-00	MYLAR	0.0039uF	5%	50V
C530	1-130-478-00	MYLAR	0.0039uF	5%	50V
C531	1-124-902-00	ELECT	0.47uF	20%	50V
C532	1-124-925-11	ELECT	2.2uF	20%	100V
C533	1-124-556-11	ELECT	2200uF	20%	16V
C534	1-124-120-11	ELECT	220uF	20%	25V
C535	1-124-927-11	ELECT	4.7uF	20%	100V
C536	1-124-903-11	ELECT	1uF	20%	50V
C540	1-124-472-11	ELECT	470uF	20%	10V
C541	1-162-282-31	CERAMIC	100PF	10%	50V
C542	1-164-159-11	CERAMIC	0.1uF		50V
C546	1-162-282-31	CERAMIC	100PF	10%	50V
C560	1-124-472-11	ELECT	470uF	20%	10V
		< CONNECTOR >			
* CN400	1-564-506-11	PLUG, CONNECTOR 3P			
* CN401	1-564-509-11	PLUG, CONNECTOR 6P			
* CN402	1-564-505-11	PLUG, CONNECTOR 2P			
* CN405	1-560-061-00	PIN, CONNECTOR 3P			
* CN406	1-564-505-11	PLUG, CONNECTOR 2P			
* CN407	1-560-060-00	PIN, CONNECTOR 2P			
* CN410	1-564-506-11	PLUG, CONNECTOR 3P			
* CN411	1-564-508-11	PLUG, CONNECTOR 5P			
* CN412	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
		< DIODE >			
D500	8-719-912-20	DIODE 1SS120			
D501	8-719-912-20	DIODE 1SS120			
D502	8-719-912-20	DIODE 1SS120			
D503	8-719-912-20	DIODE 1SS120			
D504	8-719-912-20	DIODE 1SS120			

TC MAIN VOL

Ref. No.	Part No.	Description				Remark
D505	8-719-912-20	DIODE	1SS120			
D506	8-719-912-20	DIODE	1SS120			
D507	8-719-912-20	DIODE	1SS120			
		< IC >				
IC400	8-759-111-44	IC	uPC4570C-1			
IC401	8-759-111-44	IC	uPC4570C-1			
IC402	8-759-000-49	IC	MC14066BCP			
IC403	8-752-057-21	IC	CXA1100P			
IC404	8-752-038-02	IC	CXA1198AP			
IC501	8-759-140-11	IC	uPD4011BC			
IC502	8-759-040-01	IC	MC14001BCP			
IC503	8-759-140-11	IC	uPD4011BC			
IC515	8-759-604-86	IC	M5F7807L			
IC516	8-759-604-90	IC	M5F7907L			
		< COIL >				
L400	1-410-780-11	INDUCTOR	27mH			
L500	1-410-780-11	INDUCTOR	27mH			
		< TRANSISTOR >				
Q400	8-729-900-89	TRANSISTOR	DTC144ES			
Q401	8-729-900-89	TRANSISTOR	DTC144ES			
Q402	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q403	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q500	8-729-900-89	TRANSISTOR	DTC144ES			
Q502	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q503	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q504	8-729-194-57	TRANSISTOR	2SC945-P			
Q505	8-729-194-57	TRANSISTOR	2SC945-P			
Q506	8-729-281-52	TRANSISTOR	2SC1815-Y			
Q507	8-729-900-61	TRANSISTOR	DTA114ES			
Q508	8-729-900-80	TRANSISTOR	DTC114ES			
Q509	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q511	8-729-900-65	TRANSISTOR	DTA144ES			
Q512	8-729-900-89	TRANSISTOR	DTC144ES			
		< RESISTOR >				
R415	1-215-460-00	METAL	43K	1%	1/6W	
R417	1-249-437-11	CARBON	47K	5%	1/4W	
R418	1-247-838-00	CARBON	2K	5%	1/4W	
R431	1-249-435-11	CARBON	33K	5%	1/4W	
R432	1-247-868-11	CARBON	36K	5%	1/4W	
R433	1-247-883-00	CARBON	150K	5%	1/4W	
R436	1-249-437-11	CARBON	47K	5%	1/4W	
R437	1-249-437-11	CARBON	47K	5%	1/4W	
R438	1-247-874-11	CARBON	62K	5%	1/4W	
R439	1-249-440-11	CARBON	82K	5%	1/4W	
R441	1-247-882-11	CARBON	130K	5%	1/4W	
R442	1-249-435-11	CARBON	33K	5%	1/4W	
R443	1-247-868-11	CARBON	36K	5%	1/4W	
R446	1-249-438-11	CARBON	56K	5%	1/4W	
R450	1-247-868-11	CARBON	36K	5%	1/4W	
R451	1-247-872-11	CARBON	51K	5%	1/4W	
R452	1-249-437-11	CARBON	47K	5%	1/4W	
R453	1-247-881-00	CARBON	120K	5%	1/4W	
R517	1-249-437-11	CARBON	47K	5%	1/4W	
R518	1-247-838-00	CARBON	2K	5%	1/4W	
R527	1-249-441-11	CARBON	100K	5%	1/4W	
R532	1-249-393-11	CARBON	10	5%	1/4W	
R538	1-249-385-11	CARBON	2.2	5%	1/6W	
R539	1-249-392-11	CARBON	8.2	5%	1/4W	
R540	1-249-392-11	CARBON	8.2	5%	1/4W	
		< VARIABLE RESISTOR >				
RV400	1-230-496-11	RES, ADJ, CARBON 10K				
RV401	1-230-496-11	RES, ADJ, CARBON 10K				
RV402	1-230-496-11	RES, ADJ, CARBON 10K				
RV403	1-230-499-11	RES, ADJ, CARBON 100K				
RV500	1-230-496-11	RES, ADJ, CARBON 10K				
RV501	1-230-496-11	RES, ADJ, CARBON 10K				
RV502	1-230-496-11	RES, ADJ, CARBON 10K				
RV503	1-230-499-11	RES, ADJ, CARBON 100K				
RV504	1-230-495-11	RES, ADJ, CARBON 2.2K				
RV505	1-230-495-11	RES, ADJ, CARBON 2.2K				
		< RELAY >				
RY400	1-515-614-11	RELAY				
		< TRANSFORMER >				
T500	1-433-349-11	TRANSFORMER, BIAS OSCILLATION				
**********						
*	1-641-789-11	VOL BOARD				
		*********				
		< CAPACITOR >				
C1120	1-161-379-00	CERAMIC	0.01uF	20%	25V	
		< VARIABLE RESISTOR >				
RV1109	1-241-350-11	RES, VAR, CARBON 100K/100K (VOLUME)				
**********						
		MISCELLANEOUS				
		************				
11	1-590-459-11	WIRE, FLAT TYPE (11 CORE)				
12	1-590-578-11	WIRE, FLAT TYPE (19 CORE)				
* 59	1-690-708-11	CORD (WITH CONNECTOR)				

Ref. No.	Part No.	Description	Remark
⚠CNP13011	-575-651-61	CORD, POWER (AEP, G, IT)	
⚠CNP13011	-575-652-21	CORD, POWER (UK)	
⚠F1301	1-532-350-00	FUSE, TIME LAG (4.0A)	
⚠F1302	1-532-350-00	FUSE, TIME LAG (4.0A)	
⚠F1303	1-532-203-00	FUSE, TIME LAG (2.0A)	
⚠F1304	1-532-203-00	FUSE, TIME LAG (2.0A)	
HE1	1-543-673-11	HEAD, MAGNETIC (ERASE) (DECK B)	
HP1	1-543-319-11	HEAD, MAGNETIC (PB) (DECK A)	
HRP1	1-543-319-11	HEAD, MAGNETIC (REC/PB) (DECK B)	
M1	X-3362-377-1	MOTOR (WH) ASSY	
⚠S1301	1-572-267-61	SWITCH, PUSH (AC POWER) (1 KEY)	
⚠T1301	1-450-315-11	TRANSFORMER, POWER	

****

ACCESSORIES & PACKING MATERIALS

****

	1-465-962-11	COMMANDER (STANDARD TYPE) (RM-S171)	
	1-501-369-11	ANTENNA, LEAD	
	1-501-374-11	ANTENNA, LOOP	
*	3-376-136-01	CUSHION (HALF)	
	3-754-669-41	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (AEP)	
	3-754-669-51	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP, IT)	
	4-921-934-01	SHEET, PROTECTION	
*	4-949-428-11	CUSHION	
*	4-950-799-01	INDIVIDUAL CARTON (AEP, IT)	

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HARDWARE LIST

#1	7-685-646-79	SCREW +BVT 3X8 TYPE2 N-S
#2	7-685-133-19	SCREW +P 2.6X6 TYPE2
#3	7-621-775-20	SCREW +B 2.6X5
#4	7-685-135-19	SCREW +BTP 2.6X10 TYPE2 N-S
#5	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT
#6	7-623-921-01	RING, RETAINING, CAPSTAN
#7	7-682-547-04	SCREW +BVTT 3X6 (S)
#8	7-688-001-01	W 2, SMALL
#9	7-621-849-00	SCREW, TAPPING
#10	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

9-957-026-11

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Audio Group

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